



2012 Coastal
Master Plan

Appendix A2

Project Fact Sheets

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1.0 Purpose

This Appendix provides detailed information for each project considered for the 2012 Coastal Master Plan. A total of 397 projects were considered for inclusion in the plan, of which 145 projects were selected, representing a variety of project types across the coast. An index is provided in Section 2.0 and includes page numbers for each project's fact sheet. The projects are organized by region: Southeast, Central, and Southwest. Within each region projects are grouped by those included in the plan (organized by project type) followed by projects not included (organized by project type).

Project fact sheets include a location map, brief project description, cost estimates and information on land created or maintained (for restoration projects) or estimates of risk reduction (for hurricane protection and nonstructural projects). An explanation of data included in the project fact sheets is provided in Section 3.0.

2.0 Project Fact Sheet Index

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3.0 Description of Project Fact Sheet

Table 2. 2012 Master Plan Project Fact Sheet Description			
Coastal Region	Southwest	Central	Southeast
Project Name	Short name for project.		
Project Type	<p>The 2012 Coastal Master Plan includes nine different restoration project types: Bank Stabilization, Barrier Island/Headland Restoration, Channel Realignment, Sediment Diversion, Hydrologic Restoration, Marsh Creation, Oyster Barrier Reef, Ridge Creation, and Shoreline Protection. Additionally, the master plan includes Structural Protection and Nonstructural projects to address hurricane storm surge risk reduction.</p> <p>Project type is indicated by text and icon. A description of each project type is included in Appendix A.</p>		
Project ID	Unique project identification number.		
Implementation Period	1st Implementation Period is from 2012 to 2031.		
	2nd Implementation Period is from 2032 to 2061.		

Table 2. 2012 Master Plan Project Fact Sheet Description

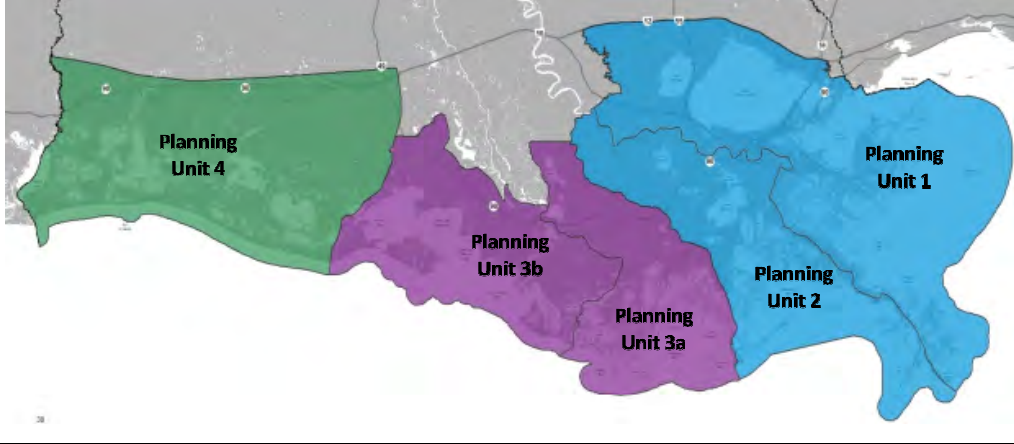
Planning Units	
Project Map	<p>The project map shows the project location at a standard scale. The inset map indicates project location and Planning Unit(s) where the project is located. Planning Unit(s) is also noted above the map.</p>
Project Source	<p>The project source field identifies the origin the project. See Appendix A for further information on the project source documents.</p>
Project Status	<p>The project status field indicates the project's current phase of development. Portions of the same project may be in different phases.</p> <p><u>Conceptual</u>: project has no elements currently under planning or design.</p> <p><u>Planning and Feasibility</u>: all or a portion of the project is currently in the planning process.</p> <p><u>Engineering and Design</u>: all or a portion of the project is currently in the design process.</p>
Description	<p>The description includes details about the project location and size. Note the size listed here indicates the size of the project at the time of construction.</p>
Scale of Influence	<p>The scale of influence indicates the estimated spatial extent of a project's influence on the coast. Influence areas range from local (small influence) to regional (large influence).</p>
Moderate / Less Optimistic Environmental Scenarios	<p>Environmental scenarios capture changes in physical factors that could affect our ability to achieve protection and build land. Factors include: sea level rise; subsidence; storm intensity and frequency; river discharge and sediment load; river nutrient levels; rainfall; evapotranspiration; and marsh collapse threshold. Two scenarios of possible future conditions were developed:</p> <p><u>Moderate</u>: assumes limited changes to these factors over the next 50 years.</p> <p><u>Less Optimistic</u>: assumes more dramatic changes to these factors over the next 50 years.</p>
Land Area <i>Restoration Projects Only</i>	<p>The land area data represents the estimated amount of change in land with respect to Future Without Action due to a project at year twenty and at the end of the fifty year planning period. The value takes into account time required for planning, engineering, design, and construction. Therefore the duration for calculating land varies by project and is always less than the full 20 or 50 year land building potential.</p>

Table 2. 2012 Master Plan Project Fact Sheet Description

Estimated Damage Dollars by Community <i>Structural Protection and Nonstructural Projects Only</i>	<p>These values indicate a project's ability to reduce risk to assets from three storm flooding events: 50 year, 100 year, or 500 year compared to the Future Without Action condition. Estimated damages to assets at risk include: residential; commercial and industrial; and agriculture (structures and crops), public infrastructure, roads, and vehicles. In addition, the number of assets is assumed to increase over the 50 year planning period, resulting in an increase in assets at risk in the Future Without Action compared to current conditions.</p> <p>In some cases individual projects may show little risk reduction for a more frequent flood event (i.e., 50 year) compared to a less frequent flood event (i.e., 500 year). This is attributed to lower damages associated with the more frequent event (i.e., 50 year) under Future Without Action conditions. For a less frequent event (i.e., 500 year), the damages are larger under Future Without Action, and a project's results may therefore yield a greater reduction in damages for that event.</p>
Project Cost Estimate	<p>Restoration and structural protection project cost estimates include three categories: Planning/Engineering & Design (P/E&D), Construction, and Operation & Maintenance (O&M). It is important to note that O&M costs shown in the fact sheets are based upon a 50 year project lifespan, while O&M costs presented in the master plan represent only those costs that would occur within the plan's 50 year period of analysis. O&M costs in the master plan account for projected P/E&D and Construction durations, as well as (in the cast of projects selected for the 2nd Implementation Period) the implementation period and are therefore always less than the 50 year project lifespan O&M cost presented in the fact sheets.</p> <p>Nonstructural project cost estimates include three categories of nonstructural measures: floodproofing, residential elevation, and voluntary residential acquisition.</p> <p><i>See Appendix A for detailed information regarding how these costs were developed.</i></p>

Barataria Pass to Sandy Point

Barrier Island/Headland Restoration

Project ID: 002.BH.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, LCA, CWPPRA

Project Status

Conceptual Phase/Planning and Feasibility/Engineering and Design

Description

Restoration of Barataria Bay barrier islands between Barataria Pass and Sandy Point to provide dune and back barrier marsh habitat and to provide storm surge and wave attenuation for the Barataria Basin.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	2791 ac	2821 ac
Long Term (Year 50)	2810 ac	2778 ac

Project Cost Estimate

Planning/Engineering & Design	\$	38,590,000
Estimated Cost Construction	\$	482,327,000
Operations & Maintenance (50 years)	\$	15,550,000
Total	\$	536,467,000

Belle Pass to Caminada Pass

Barrier Island/Headland Restoration

Project ID: 002.BH.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b



Project Source

LACPR, LCA

Project Status

Planning and Feasibility

Description

Restoration of Barataria Bay barrier islands between Belle Pass and Caminada Pass to provide dune, beach, and back barrier marsh habitat and to provide storm surge and wave attenuation for the Barataria Basin.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

2165 ac

2179 ac

Long Term (Year 50)

1442 ac

1447 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 20,470,000

Estimated Cost Construction

\$ 255,837,000

Operations & Maintenance (50 years)

\$ 5,360,000

Total**\$ 281,667,000**

Mississippi River Channel Realignment (Study)

Channel Realignment

Project ID: 001.DI.39p



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Planning, engineering, and design to explore potential locations, engineering designs, and discharge regimes for a channel realignment of the lower Mississippi River.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near term (Year 20)	N/A	N/A
Long Term (Year 50)	N/A	N/A

Project Cost Estimate

Planning/Engineering & Design	\$	73,480,000
Estimated Cost Construction	\$	-
Operations & Maintenance (50 years)	\$	-
Total	\$	73,480,000

Lower Breton (50,000 cfs)

Sediment Diversion

Project ID: 001.DI.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion into lower Breton Sound in the vicinity of Black Bay to build and maintain land, 50,000 cfs capacity (modeled at 50,000 cfs when Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation when river flow is below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	382 ac	-652 ac
Long Term (Year 50)	13089 ac	11976 ac

Project Cost Estimate

Planning/Engineering & Design	\$	13,520,000
Estimated Cost Construction	\$	169,040,000
Operations & Maintenance (50 years)	\$	33,810,000
Total	\$	216,370,000



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion into upper Breton Sound in the vicinity of Braithwaite to build and maintain land, 250,000 cfs capacity (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for river flows between 600,000-900,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation when river flow is below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3676 ac	10892 ac
Long Term (Year 50)	42356 ac	69446 ac

Project Cost Estimate

Planning/Engineering & Design	\$	56,540,000
Estimated Cost Construction	\$	709,262,000
Operations & Maintenance (50 years)	\$	141,850,000
Total	\$	907,652,000

Central Wetlands (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.18



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Planning and Feasibility

Description

Sediment diversion into Central Wetlands in the vicinity of Violet to provide sediment for emergent marsh creation and nutrients to sustain existing wetlands, 5,000 cfs capacity (modeled at 5,000 cfs when Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

-39 ac

-1242 ac

Long Term (Year 50)

1997 ac

5421 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 12,020,000

Estimated Cost Construction

\$ 150,304,000

Operations & Maintenance (50 years)

\$ 30,060,000

Total**\$ 192,384,000**

Mid-Breton Sound (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.23



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Engineering and Design

Description

Sediment diversion into mid-Breton Sound in the vicinity of White Ditch to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs for river flows above 200,000 cfs and no operation below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3584 ac	4232 ac
Long Term (Year 50)	14120 ac	20232 ac

Project Cost Estimate

Planning/Engineering & Design	\$	7,790,000
Estimated Cost Construction	\$	97,362,000
Operations & Maintenance (50 years)	\$	19,470,000
Total	\$	124,622,000

West Maurepas (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.29



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

WRDA Projects

Project Status

Engineering and Design

Description

Diversion(s) into western Maurepas Swamp in the vicinity of Convent/Blind River or Hope Canal to sustain existing baldcypress-tupelo swamp habitat, maximum capacity 5,000 cfs (modeled at 5,000 cfs when Mississippi River flow exceeds 600,000 and at 500 cfs for river flows between 200,000-600,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	166 ac	1710 ac
Long Term (Year 50)	733 ac	5763 ac

Project Cost Estimate

Planning/Engineering & Design	\$	8,050,000
Estimated Cost Construction	\$	100,631,000
Operations & Maintenance (50 years)	\$	20,130,000
Total	\$	128,811,000

Mid-Barataria (50,000 cfs- 1st Period Increment)

Sediment Diversion

Project ID: 002.DI.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Planning and Feasibility

Description

Sediment diversion into mid-Barataria in the vicinity of Myrtle Grove to build and maintain land, maximum capacity 50,000 cfs (modeled at 50,000 cfs when the Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation below 200,000 cfs). NOTE: This project is the first implementation period component of a 250,000 cfs diversion to mid-Barataria. The influence area shown is for the total 250,000 cfs project upon completion in the second implementation period.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	7089 ac	2944 ac
Long Term (Year 50)	32152 ac	19705 ac

Project Cost Estimate

Planning/Engineering & Design	\$	17,530,000
Estimated Cost Construction	\$	219,091,000
Operations & Maintenance (50 years)	\$	43,820,000
Total	\$	280,441,000

Mid-Barataria (250,000 cfs- 2nd Period Increment)

Sediment Diversion

Project ID: 002.DI.03a



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion into mid-Barataria in the vicinity of Myrtle Grove to build and maintain land, 250,00 cfs capacity (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for flows between 600,000-900,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation below 200,000 cfs). NOTE: This project represents the incremental expansion of the 50,000 cfs mid-Barataria diversion (002.DI.03) constructed in the 1st Implementation Period for a total capacity of 250,000 cfs.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	23828 ac	30917 ac
Long Term (Year 50)	43847 ac	88620 ac

Project Cost Estimate

Planning/Engineering & Design	\$	-
Estimated Cost Construction	\$	696,270,000
Operations & Maintenance (50 years)	\$	128,950,000
Total	\$	825,220,000

Lower Barataria (50,000 cfs)

Sediment Diversion

Project ID: 002.DI.15



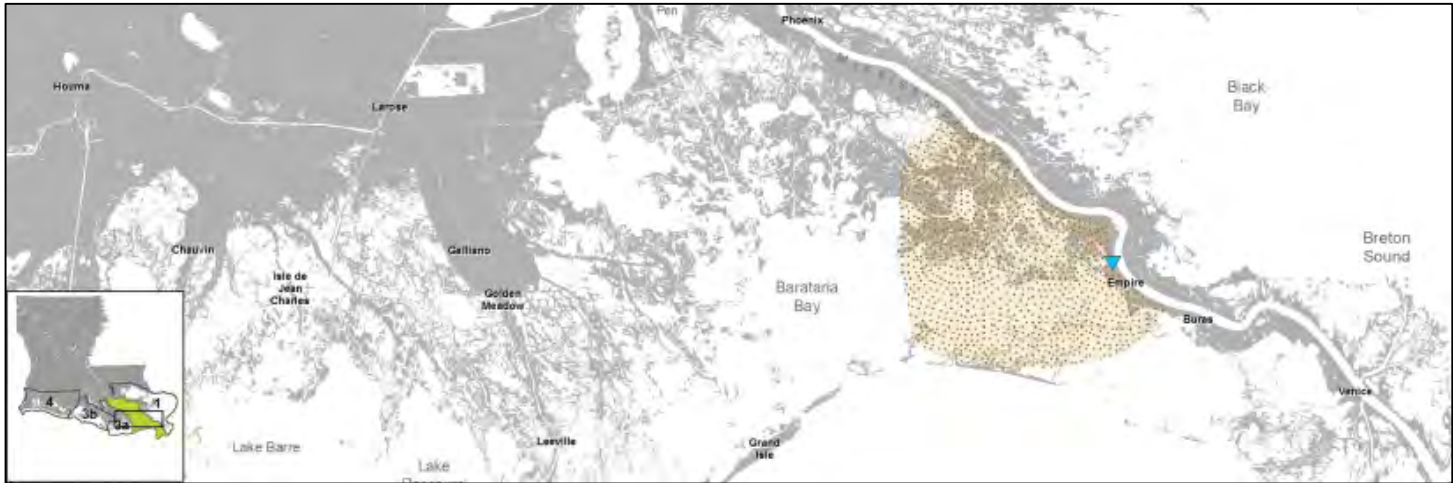
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion into lower Barataria Bay in the vicinity of Empire, 50,000 cfs capacity (modeled at capacity when Mississippi River flow exceeds 600,000 cfs; modeled at 8% of river flow from 600,000 cfs down to 200,000 cfs; no operation below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	-796 ac	-1519 ac
Long Term (Year 50)	11687 ac	8960 ac

Project Cost Estimate

Planning/Engineering & Design	\$	12,960,000
Estimated Cost Construction	\$	161,984,000
Operations & Maintenance (50 years)	\$	32,400,000
Total	\$	207,344,000

Bayou Lafourche (1,000 cfs)

Sediment Diversion

Project ID: 03a.DI.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Engineering and Design

Description

Diversion of the Mississippi River into Bayou Lafourche to increase freshwater flow down Bayou Lafourche, 1,000 cfs capacity (modeled with continuous operation at 1,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	61 ac	-896 ac
Long Term (Year 50)	15427 ac	2910 ac

Project Cost Estimate

Planning/Engineering & Design	\$	12,000,000
Estimated Cost Construction	\$	150,000,000
Operations & Maintenance (50 years)	\$	30,000,000
Total	\$	192,000,000

Amite River Diversion Canal

Hydrologic Restoration

Project ID: 001.HR.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LCA

Project Status

Engineering and Design

Description

Hydrologic restoration in the western Maurepas Swamp by gapping spoil banks along the Amite River Diversion Canal to eliminate impoundment and restore hydrologic exchange.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	-11 ac	-134 ac
Long Term (Year 50)	-11 ac	-206 ac

Project Cost Estimate

Planning/Engineering & Design	\$	230,000
Estimated Cost Construction	\$	2,937,000
Operations & Maintenance (50 years)	\$	500,000
Total	\$	3,667,000

South Lake Lery

Marsh Creation

Project ID: 001.CO.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Creation of approximately 450 acres of marsh along the south shore of Lake Lery (through sediment dredging from the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	336 ac	-112 ac
Long Term (Year 50)	883 ac	-69 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,580,000
Estimated Cost Construction	\$	30,992,000
Operations & Maintenance (50 years)	\$	2,270,000
Total	\$	35,842,000



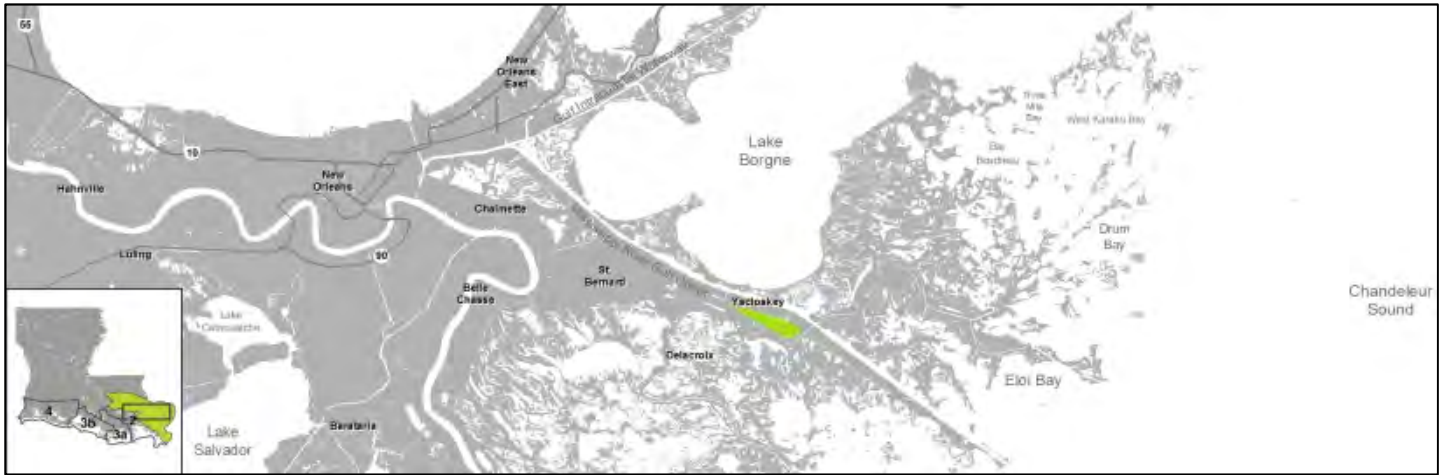
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

MRGO Ecosystem Restoration Study

Project Status

Conceptual Phase

Description

Creation of approximately 550 acres of marsh in northern Breton Sound in the vicinity of Hopedale (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

552 ac

549 ac

Long Term (Year 50)

552 ac

549 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 11,140,000

Estimated Cost Construction

\$ 133,735,000

Operations & Maintenance (50 years)

\$ 2,190,000

Total

\$ 147,065,000

New Orleans East Landbridge

Marsh Creation

Project ID: 001.MC.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 8,510 acres of marsh in the New Orleans East Landbridge (through sediment dredging of Lake Borgne and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion. NOTE: Project involves components to be constructed in 1st and 2nd Implementation Periods.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	7244 ac	6793 ac
Long Term (Year 50)	6583 ac	6427 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 168,500,000
Estimated Cost Construction	\$ 2,171,634,000
Operations & Maintenance (50 years)	\$ 27,750,000
Total	\$ 2,367,884,000

Lake Borgne- Component A

Marsh Creation

Project ID: 001.MC.07a



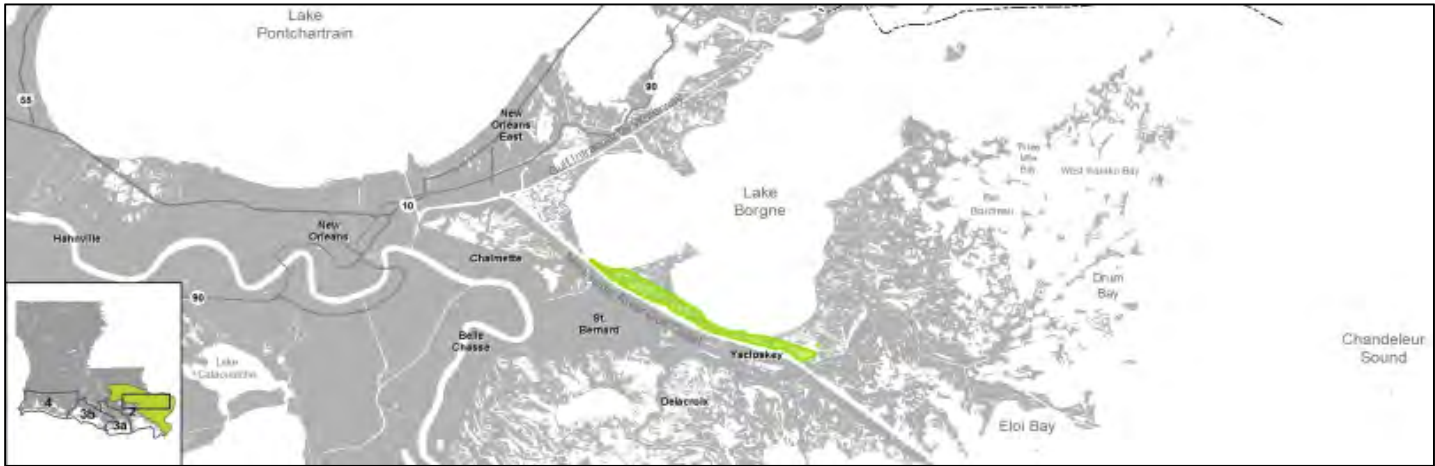
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,230 acres of marsh along the south shoreline of Lake Borgne near Proctors Point (through sediment dredging of Lake Borgne and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.07).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1919 ac	1896 ac
Long Term (Year 50)	1897 ac	1898 ac

Project Cost Estimate

Planning/Engineering & Design	\$	47,200,000
Estimated Cost Construction	\$	566,361,000
Operations & Maintenance (50 years)	\$	7,350,000
Total	\$	620,911,000

Central Wetlands -Component A

Marsh Creation

Project ID: 001.MC.08a



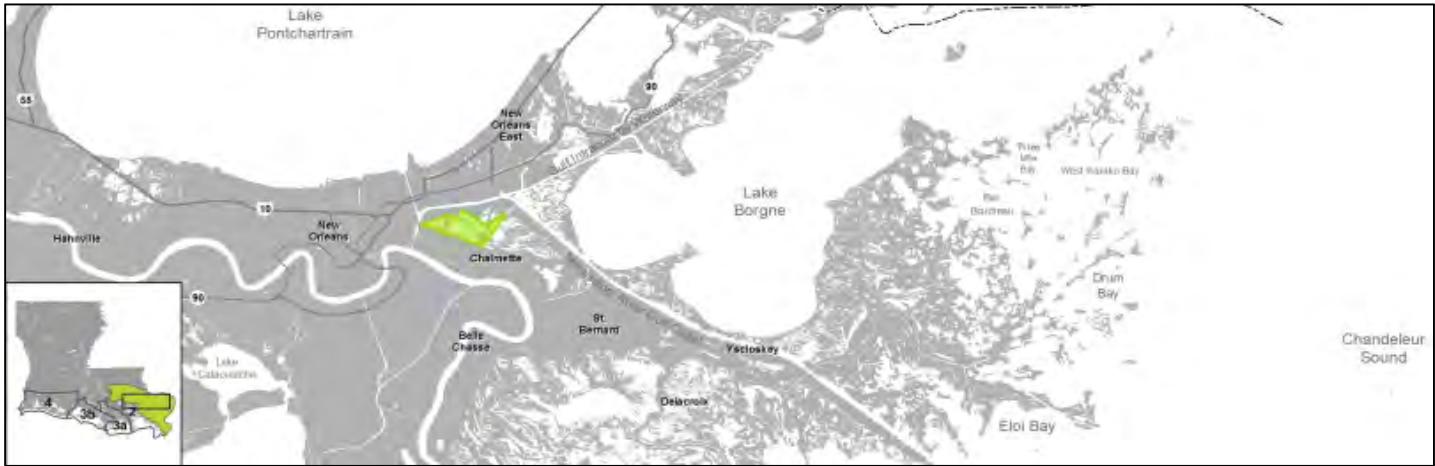
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,010 acres of marsh in Central Wetlands near Bayou Bienvenue (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.08).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	2245 ac	2248 ac
Long Term (Year 50)	2240 ac	314 ac

Project Cost Estimate

Planning/Engineering & Design	\$	17,550,000
Estimated Cost Construction	\$	210,551,000
Operations & Maintenance (50 years)	\$	6,620,000
Total	\$	234,721,000

Biloxi Marsh

Marsh Creation

Project ID: 001.MC.09



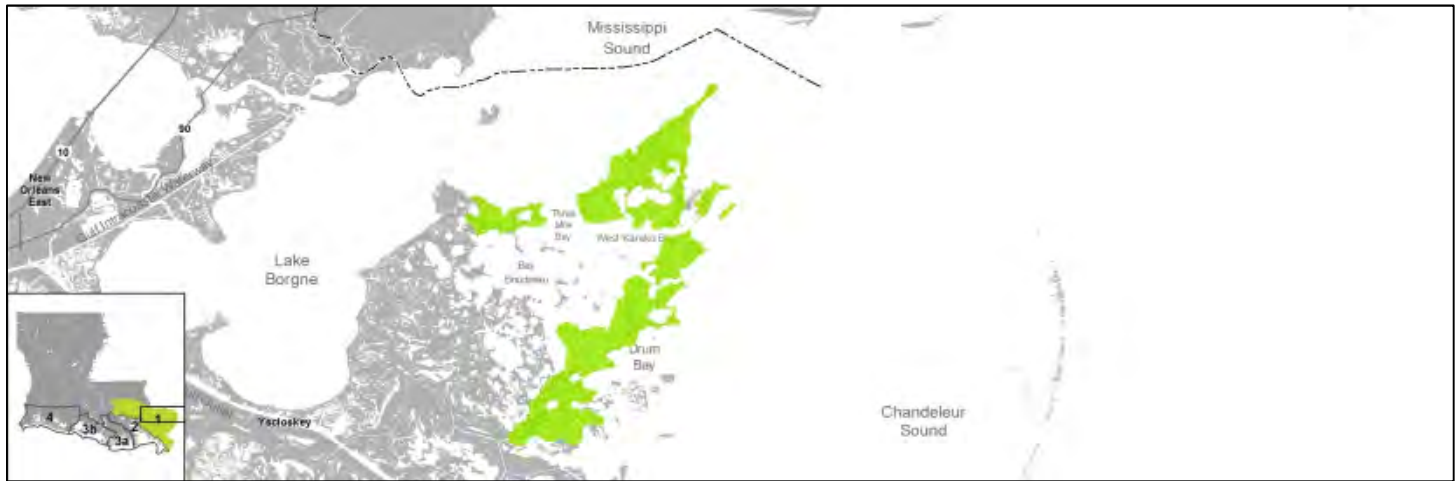
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 33,280 acres in the western portion of marsh in Biloxi Marsh from Oyster Bay to Drum Bay (through sediment dredging of Breton Sound and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	0 ac	0 ac
Long Term (Year 50)	33487 ac	33275 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 209,820,000
Estimated Cost Construction	\$ 2,784,532,000
Operations & Maintenance (50 years)	\$ 107,810,000
Total	\$ 3,102,162,000

Golden Triangle

Marsh Creation

Project ID: 001.MC.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,440 acres of marsh in the Golden Triangle area (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	2485 ac	2454 ac
Long Term (Year 50)	2456 ac	2442 ac

Project Cost Estimate

Planning/Engineering & Design	\$	22,010,000
Estimated Cost Construction	\$	264,111,000
Operations & Maintenance (50 years)	\$	8,260,000
Total	\$	294,381,000

Grand Liard Marsh Creation

Project ID: 002.CO.01



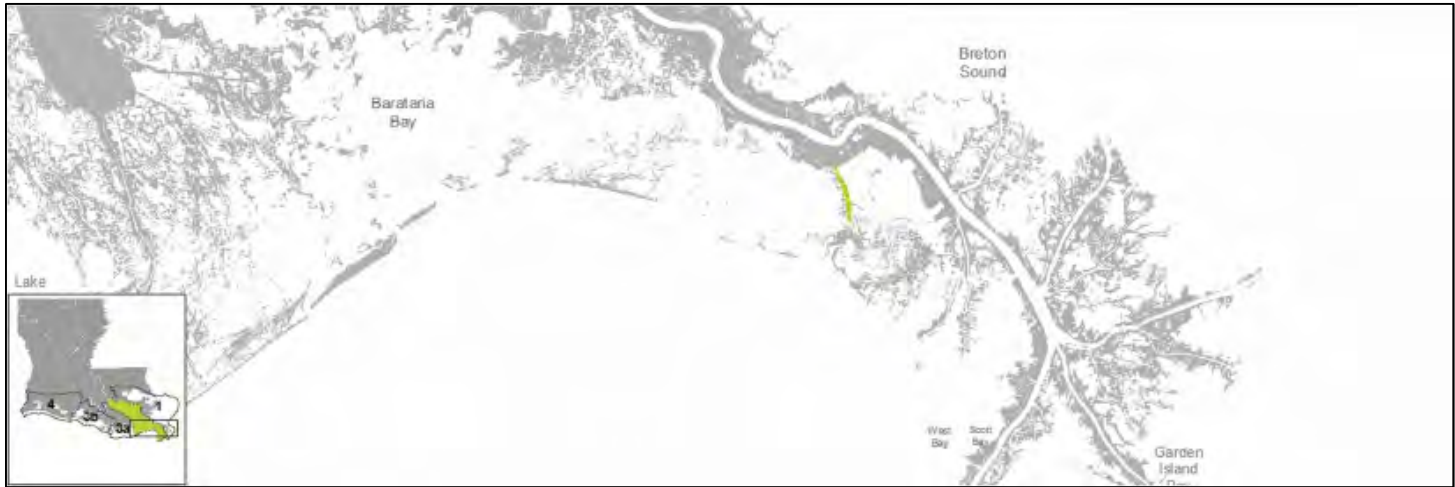
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

CWPPRA

Project Status

Engineering and Design

Description

Restoration of 561 acres of marsh and historic ridge in the vicinity of Grand Liard to provide wetland and upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

236 ac

1 ac

Long Term (Year 50)

0 ac

0 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 2,400,000

Estimated Cost Construction

\$ 29,995,000

Operations & Maintenance (50 years)

\$ 2,160,000

Total**\$ 34,555,000**

Large-Scale Barataria- Component E Marsh Creation

Project ID: 002.MC.05e



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 8,070 acres of marsh in the Barataria Basin to address the Barataria Landbridge (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05). NOTE: Project involves components to be constructed in 1st and 2nd Implementation Periods.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

9855 ac

9843 ac

Long Term (Year 50)

10043 ac

8618 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 175,870,000

Estimated Cost Construction

\$ 2,277,974,000

Operations & Maintenance (50 years)

\$ 25,650,000

Total**\$ 2,479,494,000**

Barataria Bay Rim

Marsh Creation

Project ID: 002.MC.07



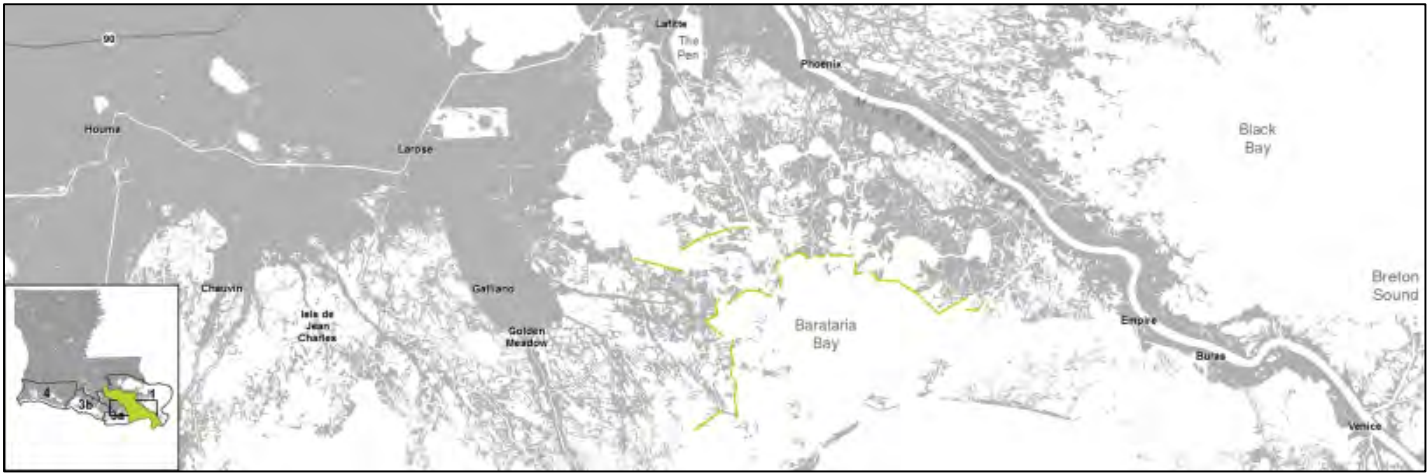
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,010 acres of marsh along northern rim of Barataria Bay (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1802 ac	1815 ac
Long Term (Year 50)	1888 ac	-2666 ac

Project Cost Estimate

Planning/Engineering & Design	\$	16,110,000
Estimated Cost Construction	\$	193,263,000
Operations & Maintenance (50 years)	\$	6,900,000
Total	\$	216,273,000

Biloxi Marsh -Component A

Oyster Barrier Reef

Project ID: 001.OR.01a



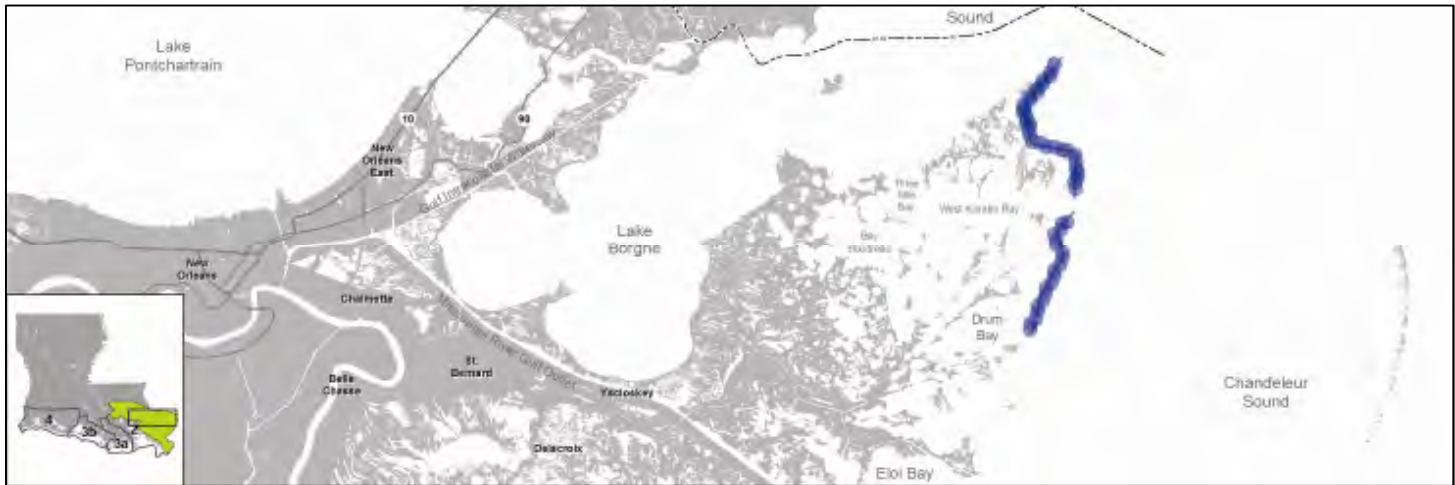
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Bernard Parish Master Plan

Project Status

Conceptual Phase

Description

Creation of approximately 113,000 feet of oyster barrier reef along the eastern shore of Biloxi Marsh to provide oyster habitat, reduce wave erosion, and prevent further marsh degradation (component of 001.OR.01).

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

344 ac

257 ac

Long Term (Year 50)

341 ac

231 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 5,750,000

Estimated Cost Construction

\$ 71,882,000

Operations & Maintenance (50 years)

\$ 6,120,000

Total**\$ 83,752,000**



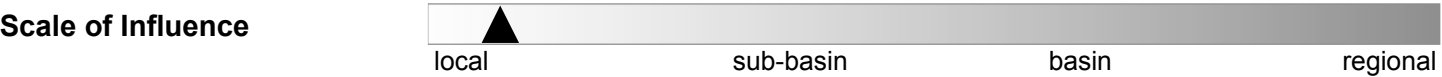
Planning Unit 2

Planning Unit 3b

Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Restoration of 117,000 feet (270 acres) of historic ridge along Bayou LaLoutre (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	378 ac	371 ac
Long Term (Year 50)	379 ac	368 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 3,680,000
Estimated Cost Construction		\$ 45,965,000
Operations & Maintenance (50 years)		\$ 12,870,000
Total		\$ 62,515,000

Bayou Long Ridge Restoration

Project ID: 002.RC.01



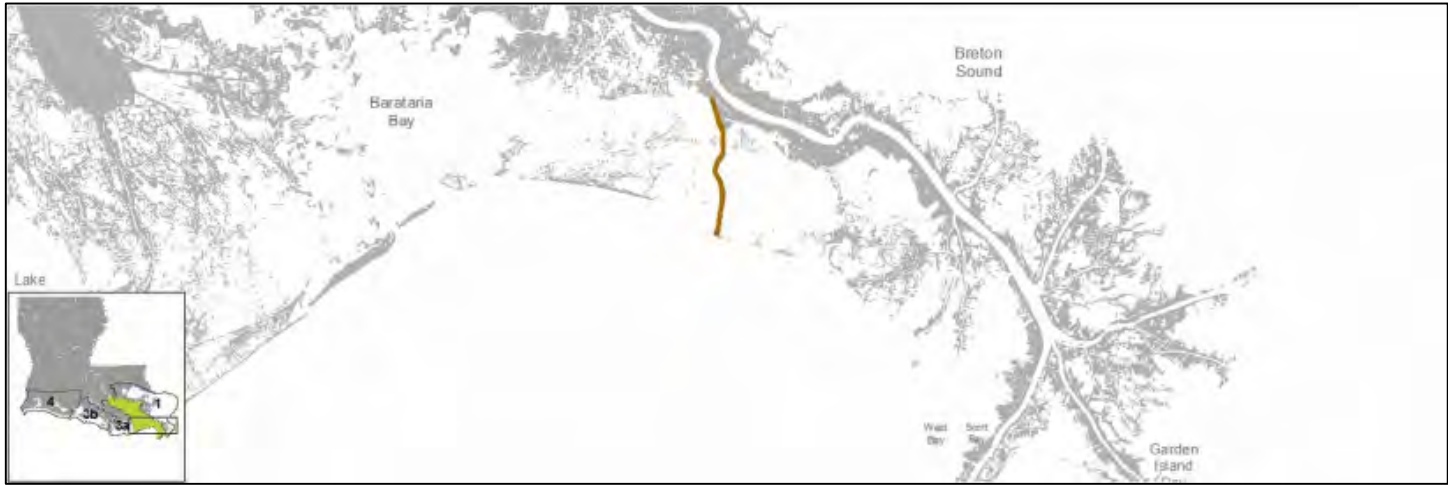
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 49,000 feet (110 acres) of historic ridge along Bayou Long/Bayou Fontanelle (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

356 ac

358 ac

Long Term (Year 50)

329 ac

346 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 2,230,000

Estimated Cost Construction

\$ 27,919,000

Operations & Maintenance (50 years)

\$ 7,060,000

Total**\$ 37,209,000**

Spanish Pass Ridge Restoration

Project ID: 002.RC.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

Plaquemines Parish Master Plan

Project Status

Conceptual Phase

Description

Restoration of approximately 53,000 feet (120 acres) of historic ridge (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) along the banks of Spanish Pass near Venice to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

290 ac

311 ac

Long Term (Year 50)

272 ac

256 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 2,630,000

Estimated Cost Construction

\$ 32,892,000

Operations & Maintenance (50 years)

\$ 7,640,000

Total**\$ 43,162,000**

East New Orleans Landbridge

Shoreline Protection

Project ID: 001.CO.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Shoreline protection through rock breakwaters of approximately 27,000 feet of coastal marsh on the east side of the New Orleans Landbridge in the vicinity of Alligator Bend to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

90 ac

74 ac

Long Term (Year 50)

71 ac

66 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 1,640,000

Estimated Cost Construction

\$ 20,447,000

Operations & Maintenance (50 years)

\$ 23,280,000

Total**\$ 45,367,000**

Manchac Landbridge

Shoreline Protection

Project ID: 001.SP.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CIAP

Project Status

Conceptual Phase

Description

Shoreline protection through rock breakwaters of approximately 8,000 feet of Lake Pontchartrain shoreline north of Pass Manchac near Sinking Bayou to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	6 ac	7 ac
Long Term (Year 50)	6 ac	5 ac

Project Cost Estimate

Planning/Engineering & Design	\$	510,000
Estimated Cost Construction	\$	6,318,000
Operations & Maintenance (50 years)	\$	6,770,000
Total	\$	13,598,000

Eastern Lake Borgne

Shoreline Protection

Project ID: 001.SP.03



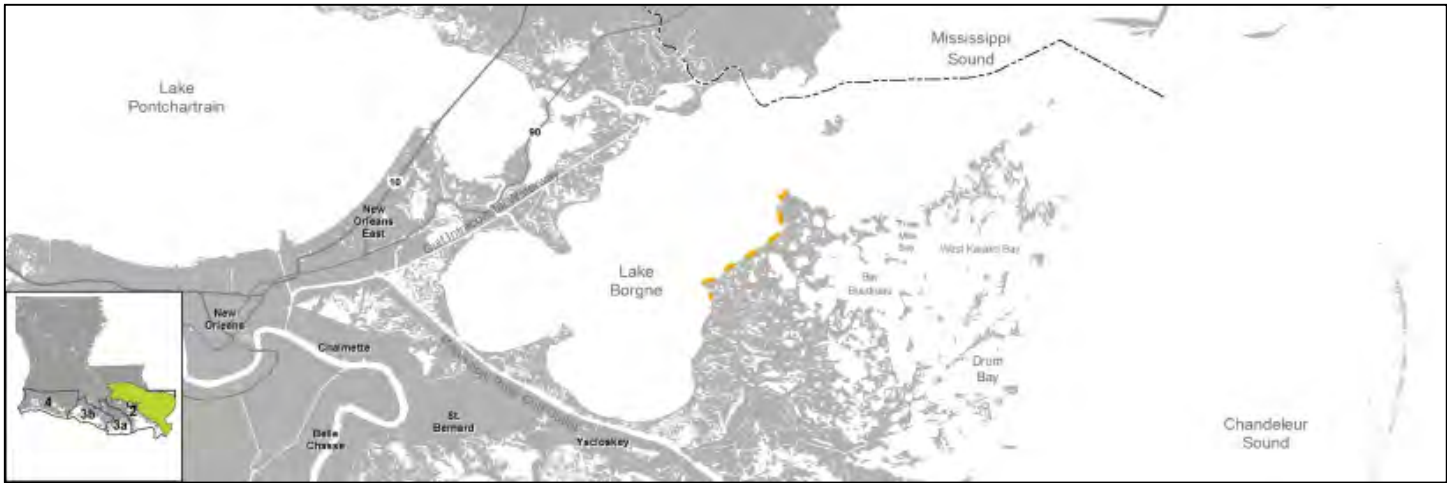
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

MRGO Ecosystem Restoration Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 57,000 feet of the eastern shore of Lake Borgne from Malheureux Point to the vicinity of Point aux Marchettes to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

154 ac

150 ac

Long Term (Year 50)

153 ac

151 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 3,230,000

Estimated Cost Construction

\$ 40,360,000

Operations & Maintenance (50 years)

\$ 46,930,000

Total**\$ 90,520,000**

MRGO

Shoreline Protection

Project ID: 001.SP.04



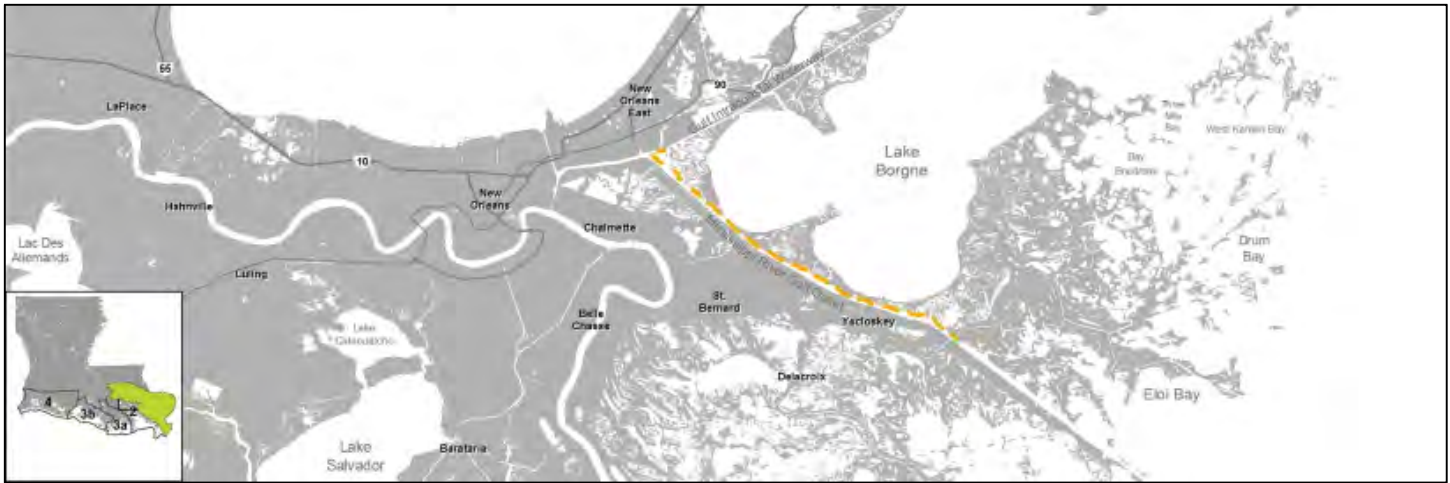
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

MRGO Ecosystem Restoration Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 133,000 feet of the north bank of the Mississippi River Gulf Outlet from the Inner Harbor Navigation Canal to Bayou La Loutre to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	604 ac	584 ac
Long Term (Year 50)	585 ac	583 ac

Project Cost Estimate

Planning/Engineering & Design	\$	7,490,000
Estimated Cost Construction	\$	93,567,000
Operations & Maintenance (50 years)	\$	109,810,000
Total	\$	210,867,000

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Greater New Orleans High Level

Structural Protection

Project ID: 001.HP.04



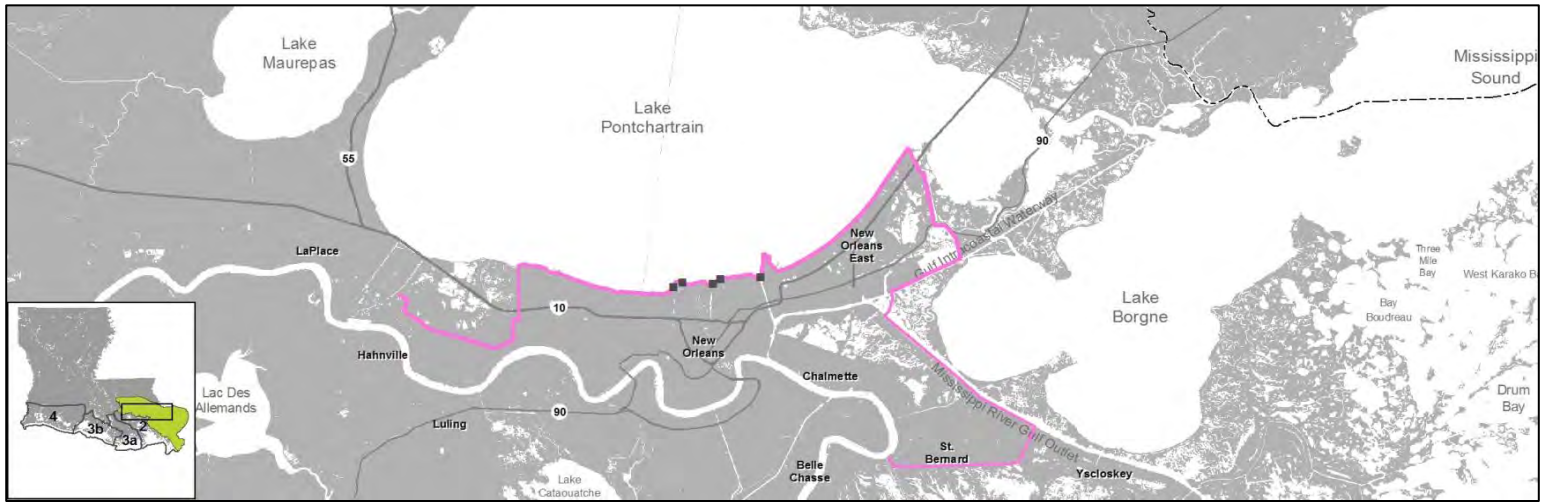
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

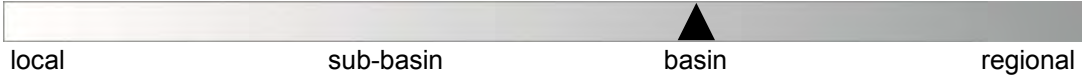
Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 15-35 feet NAVD88 around the Greater New Orleans area from Verret to the Bonnet Carre spillway for hurricane storm surge risk reduction. Project features include approximately 290,000 feet of earthen levee, 16,000 feet of concrete T-wall, armoring of 113,000 feet of existing concrete T-wall, one 40-foot roller gate, two 56-foot sector gates, one 110-foot barge gates, and two 220-foot barge gates.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	118,190,000
Estimated Cost Construction	\$	1,291,000,000
Operations & Maintenance (50 Years)	\$	234,250,000
Total	\$	1,643,440,000

Greater New Orleans High Level

Structural Protection

Project ID: 001.HP.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for the 500 year flood event in the moderate scenario and all three storm surge events in the less optimistic scenario. The existing Greater New Orleans levee system provides risk reduction for the 50 and 100 year storm surge flood events for some of these communities under the moderate scenario as reflected by the \$0 damages for FWOA and FWP.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Chalmette	\$0M	\$0M	\$0M	\$0M	\$19,775M	\$0M
Destrehan	\$0M	\$0M	\$0M	\$0M	\$8,921M	\$11M
Metairie/Kenner	\$98M	\$93M	\$115M	\$110M	\$210,157M	\$154M
New Orleans East	\$9M	\$8M	\$9M	\$9M	\$13M	\$9M
New Orleans	\$400M	\$400M	\$403M	\$402M	\$211,452M	\$409M
Orleans Parish	\$522M	\$522M	\$553M	\$553M	\$783M	\$775M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,265M	\$0M
Saint Bernard Parish	\$172M	\$172M	\$175M	\$175M	\$957M	\$299M
Saint Rose	\$47M	\$47M	\$48M	\$48M	\$3,373M	\$50M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Chalmette	\$0M	\$0M	\$0M	\$0M	\$19,362M	\$0M
Destrehan	\$8,097M	\$0M	\$8,555M	\$0M	\$9,190M	\$8,667M
Metairie/Kenner	\$204,747M	\$117M	\$207,592M	\$140M	\$212,388M	\$207,965M
New Orleans East	\$13M	\$9M	\$104M	\$9M	\$39,057M	\$9M
New Orleans	\$197,393M	\$403M	\$204,071M	\$407M	\$214,380M	\$204,842M
Orleans Parish	\$545M	\$545M	\$663M	\$675M	\$1,819M	\$788M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,186M	\$0M
Saint Bernard Parish	\$174M	\$174M	\$229M	\$230M	\$947M	\$310M
Saint Rose	\$2,378M	\$48M	\$2,951M	\$49M	\$3,697M	\$3,045M

Greater New Orleans LaPlace Extension

Structural Protection

Project ID: 001.HP.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Planning and Feasibility

Description

Construction of a levee to an elevation of 13.5 feet NAVD88 in the LaPlace area for hurricane storm surge risk reduction. Project features include approximately 134,000 feet of earthen levee, 6,000 feet of concrete T-wall, two 40-foot roller gates, and two 110-foot barge gates.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	31,200,000
Estimated Cost Construction	\$	328,000,000
Operations & Maintenance (50 Years)	\$	113,450,000
Total	\$	472,650,000

Greater New Orleans LaPlace Extension

Structural Protection

Project ID: 001.HP.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for all the storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
LaPlace	\$8,779M	\$7M	\$9,981M	\$10M	\$11,064M	\$871M
Saint Charles Parish	\$2,288M	\$2,258M	\$2,794M	\$2,535M	\$3,341M	\$2,873M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
LaPlace	\$10,248M	\$69M	\$13,388M	\$842M	\$17,970M	\$5,937M
Saint Charles Parish	\$3,265M	\$3,133M	\$3,607M	\$3,204M	\$4,138M	\$3,675M

Lake Pontchartrain Barrier (Low)- Study

Structural Protection

Project ID: 001.HP.08p



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Planning, engineering, and design to construct a levee to an elevation of 24.5 feet NAVD88 across the mouth of Lake Pontchartrain from the New Orleans Landbridge to Interstate 59 north of Slidell for hurricane storm surge risk reduction.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	76,470,000
Estimated Cost Construction	\$	-
Operations & Maintenance (50 Years)	\$	-
Total	\$	76,470,000

Lake Pontchartrain Barrier (Low)- Study

Structural Protection

Project ID: 001.HP.08p



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

This project is a study and does not involve the construction of any risk reduction features.

Slidell Ring Levee

Structural Protection

Project ID: 001.HP.13



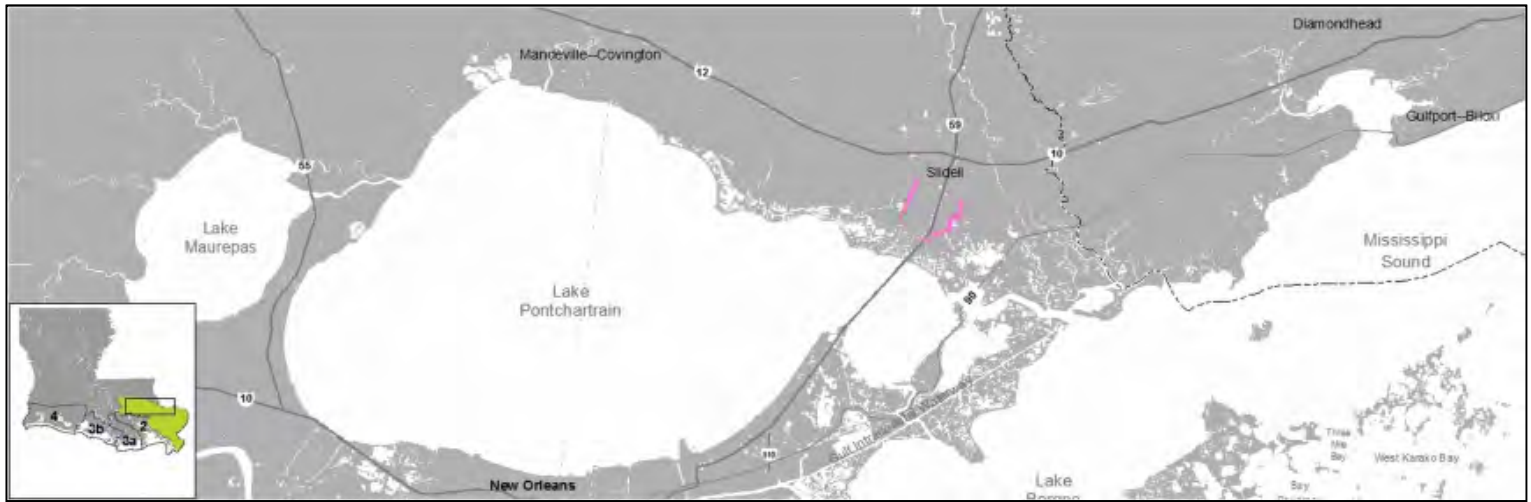
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Tammany Parish Master Plan

Project Status

Engineering and Design

Description

Construction of a ring levee to an elevation of 16.0 feet NAVD88 around Slidell for hurricane storm surge risk reduction. Project features include approximately 20,000 feet of earthen levee and 16,000 feet of concrete T-wall.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	5,900,000
Estimated Cost Construction	\$	62,000,000
Operations & Maintenance (50 Years)	\$	13,650,000
Total	\$	81,550,000

Slidell Ring Levee

Structural Protection

Project ID: 001.HP.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Slidell for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Slidell	\$14,926M	\$6,853M	\$24,913M	\$13,240M	\$47,083M	\$41,087M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Slidell	\$19,289M	\$9,645M	\$31,980M	\$24,599M	\$51,115M	\$49,879M

Lafitte Ring Levee

Structural Protection

Project ID: 002.HP.07



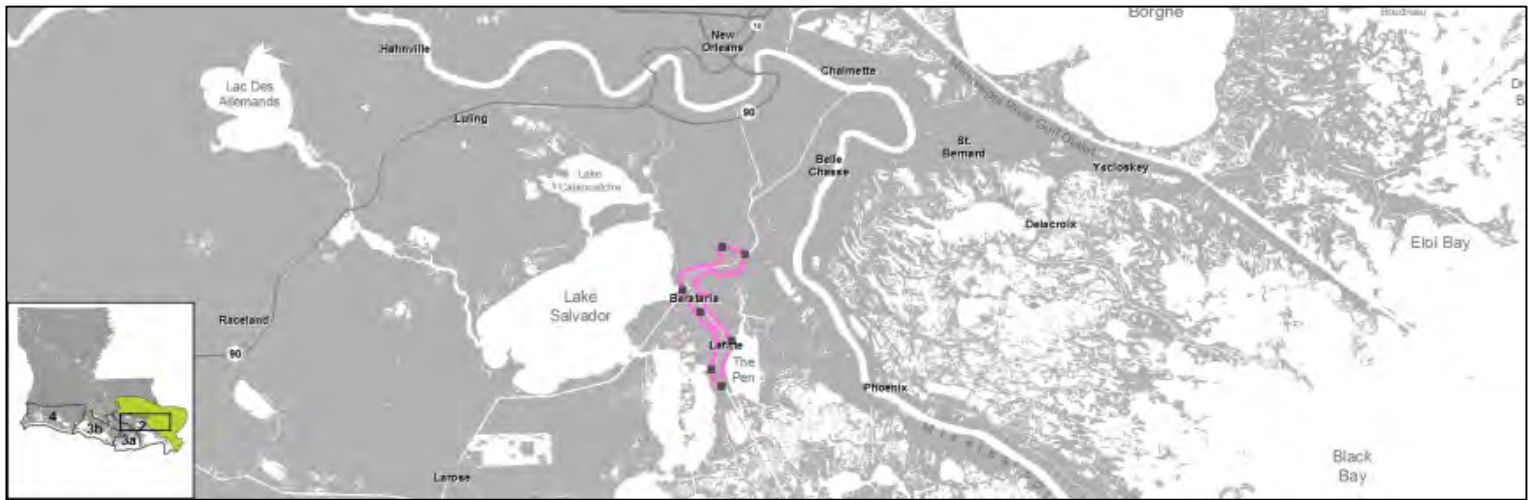
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

Jefferson Parish

Project Status

Conceptual Phase

Description

Construction of a ring levee to an elevation of 16.0 feet NAVD88 around Lafitte for hurricane storm surge risk reduction. Project features include approximately 156,000 feet of earthen levee, two 30-foot barge gates, three 40-foot roller gates, one 56-foot roller gate, three 150-foot roller gates, and nine pumps with a combined capacity of 4,800 cfs.

Scale of Influence**Project Cost Estimate:**

Planning / Engineering & Design	\$	64,970,000
Estimated Cost Construction	\$	688,000,000
Operations & Maintenance (50 Years)	\$	135,700,000
Total	\$	888,670,000

Lafitte Ring Levee

Structural Protection

Project ID: 002.HP.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Lafitte and Jean Lafitte for all three storm surge events under both scenarios.

Moderate Scenario

Community	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Lafitte/Jean Lafitte	\$1,628M	\$47M	\$1,986M	\$84M	\$2,554M	\$89M

Less Optimistic Scenario

Community	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Lafitte/Jean Lafitte	\$2,036M	\$84M	\$2,438M	\$88M	\$2,632M	\$92M

Maintain West Bank Levees

Structural Protection

Project ID: 002.HP.08



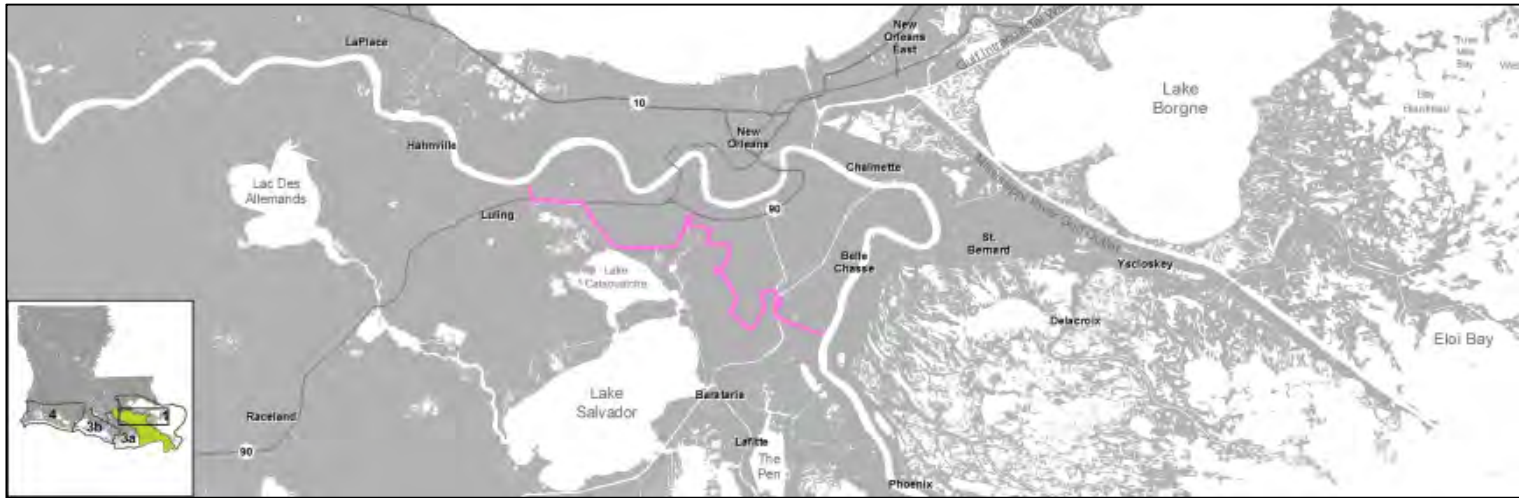
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Master Plan Team

Project Status

Engineering and Design

Description

Maintenance of the existing West Bank and Vicinity levees at design elevation for the 50-year period of analysis. Project features include maintenance lifts of approximately 145,000 feet of earthen levee to account for compaction and subsidence.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	9,000,000
Estimated Cost Construction	\$	95,000,000
Operations & Maintenance (50 Years)	\$	98,950,000
Total	\$	202,950,000

Maintain West Bank Levees

Structural Protection

Project ID: 002.HP.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

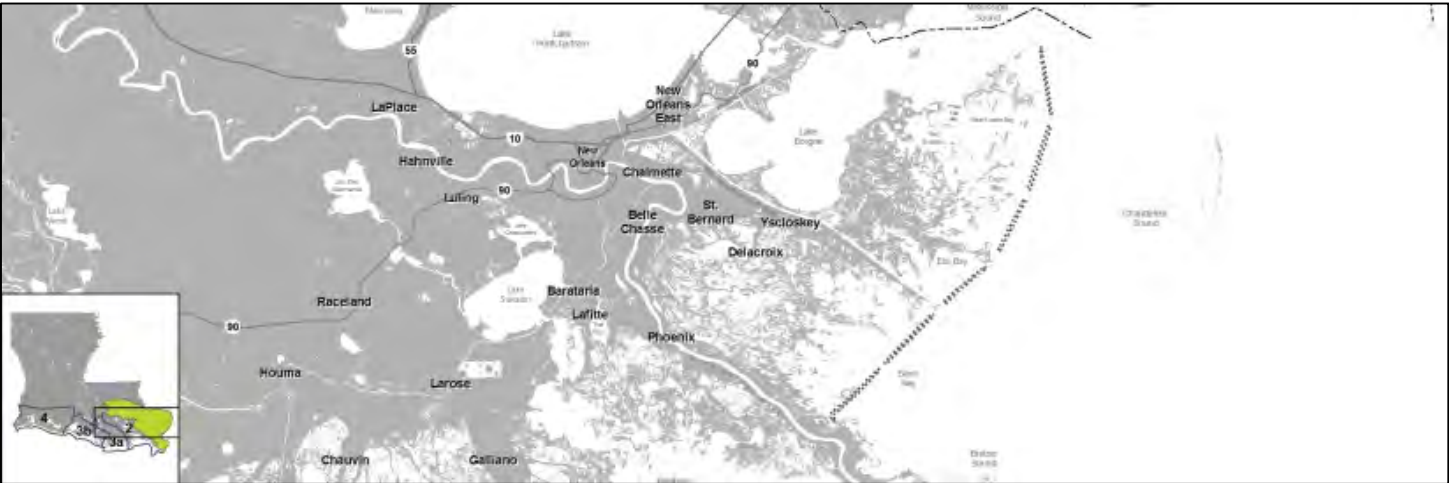
Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for all three storm surge events under the less optimistic scenario. The existing West Bank levees provide risk reduction for some of these communities under the moderate scenario for all three storm surge events as reflected by the \$0 damages for both FWOA and FWP.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Algiers	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Belle Chasse	\$1M	\$1M	\$2M	\$2M	\$2M	\$2M
Jefferson Parish	\$1,799M	\$1,798M	\$2,259M	\$2,257M	\$2,572M	\$2,572M
Waggaman	\$0M	\$0M	\$0M	\$0M	\$1M	\$0M
West Bank - New Orleans	\$397M	\$397M	\$399M	\$400M	\$408M	\$408M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Algiers	\$32,478M	\$0M	\$33,060M	\$0M	\$33,931M	\$0M
Belle Chasse	\$8,259M	\$2M	\$8,401M	\$2M	\$8,597M	\$2M
Jefferson Parish	\$2,875M	\$2,249M	\$3,211M	\$2,492M	\$3,927M	\$3,101M
Waggaman	\$4,870M	\$0M	\$5,238M	\$0M	\$5,888M	\$1M
West Bank - New Orleans	\$110,885M	\$400M	\$111,721M	\$404M	\$112,734M	\$413M



Project Source

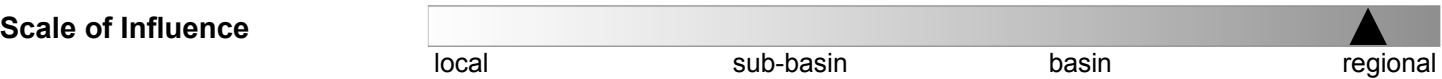
Dutch Perspective

Project Status

Conceptual Phase

Description

Creation of new barrier islands in the Pontchartrain Basin offshore of Black Bay, Eloi Bay, and Drum Bay in Breton Sound to provide dune and back barrier marsh habitat and to provide storm surge and wave attenuation in Breton Sound. NOTE: Project was modeled as a bank stabilization project because geographic coverage of Barrier Morphology module did not extend to project footprint.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	9641 ac	9375 ac
Long Term (Year 50)	9336 ac	9108 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 128,530,000
Estimated Cost Construction		\$ 1,681,390,000
Operations & Maintenance (50 years)		\$ 27,250,000
Total		\$ 1,837,170,000

Chandeleur Islands

Barrier Island/Headland Restoration

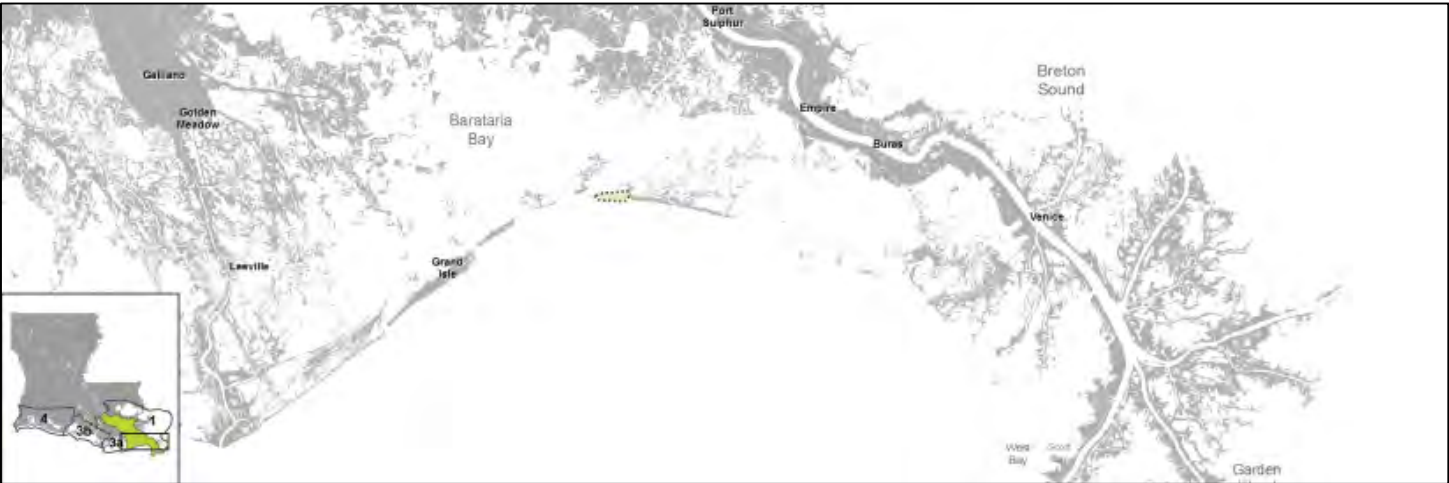
Project ID: 001.BH.02



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR		
Project Status	Conceptual Phase		
Description	Restoration of the Chandeleur Islands to provide dune and back barrier marsh habitat and to provide storm surge and wave attenuation for the Biloxi Marsh.		
Scale of Influence	<div> <div></div> <div>local</div> <div>sub-basin</div> <div>basin</div> <div>regional</div> </div>		
Land Area	Moderate	Less Optimistic	
	Near Term (Year 20)	4861 ac	4894 ac
	Long Term (Year 50)	4832 ac	4838 ac
Project Cost Estimate	Planning/Engineering & Design	\$	66,450,000
	Estimated Cost Construction	\$	838,088,000
	Operations & Maintenance (50 years)	\$	15,000,000
	Total	\$	919,538,000



Project Source	CWPPRA
Project Status	Engineering and Design
Description	Restoration of Cheniere Ronquille to provide dune and back barrier marsh habitat and to provide storm surge and wave attenuation for the Barataria Basin.




Land Area	Moderate	Less Optimistic
Near Term (Year 20)	299 ac	303 ac
Long Term (Year 50)	305 ac	301 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 4,710,000
	Estimated Cost Construction	\$ 58,818,000
	Operations & Maintenance (50 years)	\$ 1,460,000
	Total	\$ 64,988,000

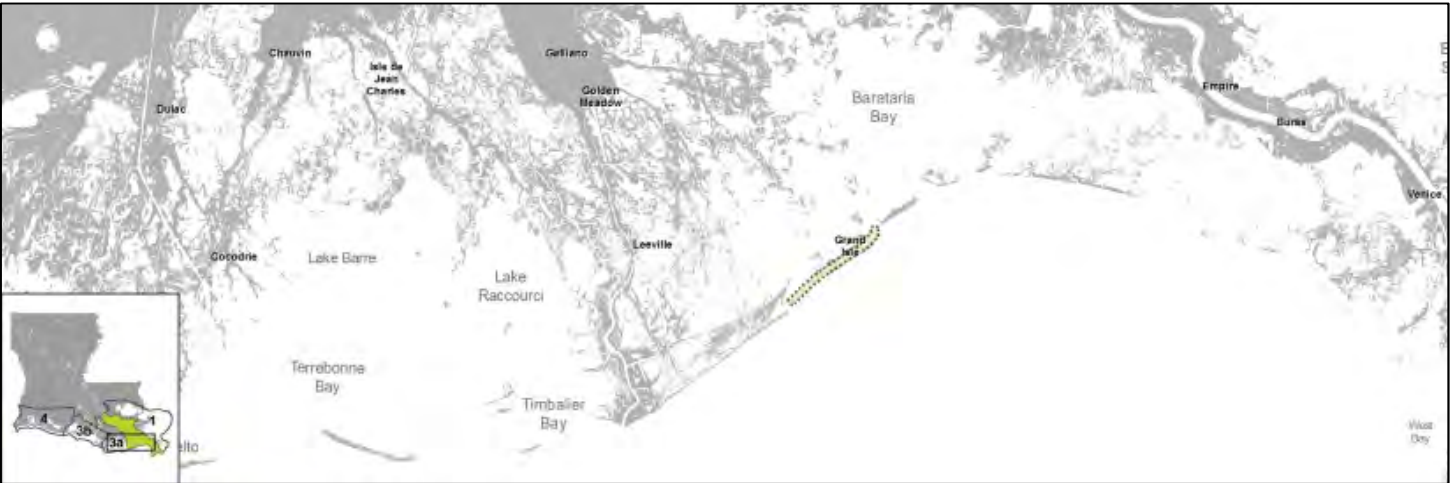
Grand Isle

Barrier Island/Headland Restoration

Project ID: 002.BH.06



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Restoration of Grand Isle to provide dune and beach habitat and provide storm surge and wave attenuation for the Barataria Basin.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	168 ac	173 ac
Long Term (Year 50)	137 ac	183 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 12,250,000
	Estimated Cost Construction	\$ 153,131,000
	Operations & Maintenance (50 years)	\$ 680,000
	Total	\$ 166,061,000

Down River Reallocation (50/50)

Channel Realignment

Project ID: 001.DI.32



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase
Description	Reallocation of the Mississippi River into the lower Breton Sound/Barataria basins to build and maintain land (50% of river flow to lower Breton Sound in the vicinity of Black Bay and 50% of river flow to lower Barataria in the vicinity of Empire) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	536 ac	-463 ac
Long Term (Year 50)	27229 ac	36355 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 234,000,000
	Estimated Cost Construction	\$ 3,295,400,000
	Operations & Maintenance (50 years)	\$ 1,168,710,000
	Total	\$ 4,698,110,000

Down River Reallocation (90/10)

Channel Realignment

Project ID: 001.DI.33



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase
Description	Reallocation of the Mississippi River into the lower Breton Sound/Barataria basins to build and maintain land (90% of river flow to lower Breton Sound in the vicinity of Black Bay and 10% of river flow to lower Barataria in the vicinity of Empire) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-343 ac	39 ac
Long Term (Year 50)	8884 ac	18116 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 224,650,000
	Estimated Cost Construction	\$ 3,140,500,000
	Operations & Maintenance (50 years)	\$ 1,137,740,000
	Total	\$ 4,502,890,000

Project ID: 001.DI.34



Planning Unit 4



Project Status Conceptual Phase

Description	<p>Reallocation of the Mississippi River into the lower Breton Sound/Barataria basins to build and maintain land (10% of river flow to lower Breton Sound in the vicinity of Black Bay and 90% of river flow to lower Barataria in the vicinity of Empire) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.</p>
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Scale of Influence

local sub-basin basin regional

Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	-2062 ac	-3080 ac
	Long Term (Year 50)	41803 ac	30707 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 232,230,000
	Estimated Cost Construction		\$ 3,265,700,000
	Operations & Maintenance (50 years)		\$ 1,162,780,000
	Total		\$ 4,660,710,000

Up River Reallocation (50/50)

Channel Realignment

Project ID: 001.DI.35



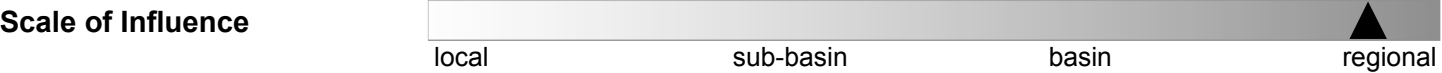
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source River-Use Workgroup

Project Status Conceptual Phase

Description Reallocation of the Mississippi River into the mid-Breton Sound/Barataria basins to build and maintain land (50% of river flow to mid-Breton Sound in the vicinity of White Ditch and 50% of river flow to mid-Barataria in the vicinity of Hermitage) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	2172 ac	1420 ac
Long Term (Year 50)	50094 ac	48971 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 238,480,000
	Estimated Cost Construction	\$ 3,370,400,000
	Operations & Maintenance (50 years)	\$ 1,183,710,000
	Total	\$ 4,792,590,000

Project ID: 001.DI.36



Planning Unit 4



Project Status Conceptual Phase

Description	<p>Reallocation of the Mississippi River into the mid-Breton Sound/Barataria basins to build and maintain land (90% of river flow to mid-Breton Sound in the vicinity of White Ditch and 10% of river flow to mid-Barataria in the vicinity of Hermitage) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.</p>
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Scale of Influence

local sub-basin basin regional

Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	3481 ac	3361 ac
	Long Term (Year 50)	53249 ac	46831 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 238,100,000
	Estimated Cost Construction		\$ 3,364,000,000
	Operations & Maintenance (50 years)		\$ 1,182,430,000
	Total		\$ 4,784,530,000

Up River Reallocation (10/90)

Channel Realignment

Project ID: 001.DI.37



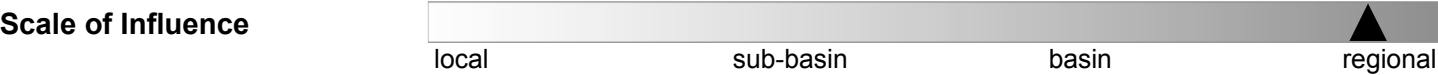
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description

Reallocation of the Mississippi River into the mid-Breton Sound/Barataria basins to build and maintain land (10% of river flow to mid-Breton Sound in the vicinity of White Ditch and 90% of river flow to mid-Barataria in the vicinity of Hermitage) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	6083 ac	4152 ac
	Long Term (Year 50)	29856 ac	46064 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 233,210,000	
	Estimated Cost Construction	\$ 3,282,100,000	
	Operations & Maintenance (50 years)	\$ 1,166,050,000	
	Total	\$ 4,681,360,000	

Up River Reallocation (80/20)

Channel Realignment

Project ID: 001.DI.38



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

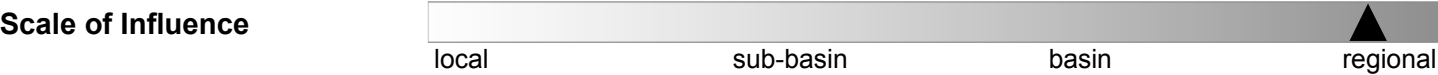
River-Use Workgroup

Project Status

Conceptual Phase

Description

Reallocation of the Mississippi River into the mid-Breton Sound/Barataria basins to build and maintain land (80% of river flow to mid-Breton Sound in the vicinity of White Ditch and 20% of river flow to mid-Barataria in the vicinity of Hermitage) and the installation of a sail-through lock in the existing Mississippi River navigation channel to accommodate navigation.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1761 ac	587 ac
Long Term (Year 50)	59388 ac	58083 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 256,220,000
Estimated Cost Construction		\$ 3,674,200,000
Operations & Maintenance (50 years)		\$ 1,244,480,000
Total		\$ 5,174,900,000

Project ID: 002.DI.20



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Construction of a new navigation channel at Pass a Loutre with the following up-river diversions: Bayou Manchac/Bayou Braud: 5,000 cfs; Blind River: 5,000 cfs; Garyville: 3,000 cfs; Bonnet Carré: 10,000 cfs; Violet: 20,000 cfs; White Ditch: 1,000 cfs; Benneys Bay: 50,000 cfs; Belair: 200,000 cfs; Bohemia: 200,000 cfs; Lagan: 1,000 cfs; Johnson: 1,000 cfs; Jesuit Bend: 5,000 cfs; Myrtle Grove: 20,000 cfs; Deer Range: 10,000 cfs; Buras: 59,900 cfs (modeled with diversion operation at capacity when the river exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation for river flows below 200,000 cfs).

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

6350 ac

6941 ac

Long Term (Year 50)

98573 ac

79920 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 295,550,000

Estimated Cost Construction

\$ 4,389,800,000

Operations & Maintenance (50 years)

\$ 1,247,220,000

Total

\$ 5,932,570,000

Lower Breton (5,000 cfs)
Sediment Diversion
Project ID: 001.DI.01

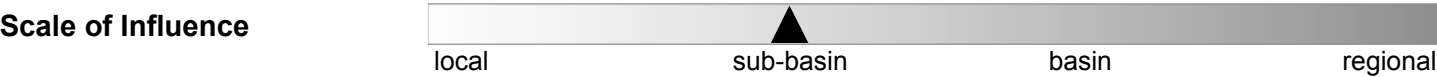


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description	Sediment diversion into lower Breton Sound in the vicinity of Black Bay to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when Mississippi River flow exceeds 200,000 cfs and no operation when river flow is below 200,000 cfs).
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Land Area	Moderate	Less Optimistic
Near term (Year 20)	-6192 ac	-6974 ac
Long Term (Year 50)	9765 ac	7381 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 6,070,000
	Estimated Cost Construction	\$ 75,820,000
	Operations & Maintenance (50 years)	\$ 15,160,000
	Total	\$ 97,050,000

Lower Breton (250,000 cfs)
Sediment Diversion
Project ID: 001.DI.04



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source River-Use Workgroup

Project Status Conceptual Phase

Description Sediment diversion into lower Breton Sound in the vicinity of Black Bay to build and maintain land, 250,000 cfs capacity (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for river flows between 600,000-900,000 cfs, at 8% of river flows between 200,000 cfs-600,000 cfs, and no operation when river flow is below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near term (Year 20)	748 ac	85 ac
Long Term (Year 50)	8087 ac	15412 ac

Project Cost Estimate		
Planning/Engineering & Design	\$	31,740,000
Estimated Cost Construction	\$	396,803,000
Operations & Maintenance (50 years)	\$	79,360,000
Total	\$	507,903,000

Bonnet Carre (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.05

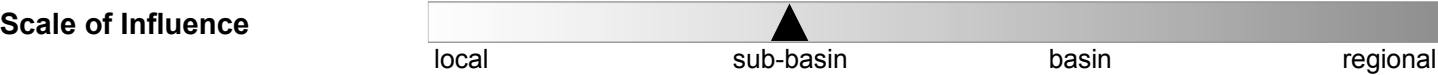


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description	Sediment diversion at Bonnet Carre to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when Mississippi River flow exceeds 200,000 cfs and no operation when river flow is below 200,000 cfs).
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Land Area	Moderate	Less Optimistic
Near term (Year 20)	-864 ac	1533 ac
Long Term (Year 50)	-708 ac	4608 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 2,000,000
	Estimated Cost Construction	\$ -
	Operations & Maintenance (50 years)	\$ 15,000,000
	Total	\$ 17,000,000

Fort St. Phillip (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.06



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	CWPPRA
Project Status	Engineering and Design
Description	Sediment diversion in the vicinity of Fort St. Phillip to build and maintain land, 2,500-5,000 cfs capacity (modeled as an uncontrolled diversion with a design flow of 3,000 cfs at the 50% exceedence stage of the river).



Land Area	Moderate	Less Optimistic
Near term (Year 20)	486 ac	250 ac
Long Term (Year 50)	16775 ac	14134 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 3,990,000
	Estimated Cost Construction	\$ 49,885,000
	Operations & Maintenance (50 years)	\$ 9,980,000
	Total	\$ 63,855,000

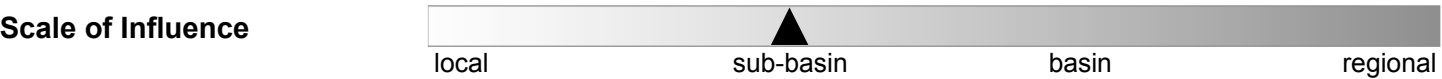
Upper Breton (5,000 cfs)
Sediment Diversion
Project ID: 001.DI.14



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup, LCA
Project Status	Planning and Feasibility
Description	Sediment diversion into upper Breton Sound in the vicinity of Braithwaite to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when Mississippi River flow exceeds 200,000 cfs and no operation when river flow is below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near term (Year 20)	5183 ac	5301 ac
Long Term (Year 50)	18279 ac	22957 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 2,000,000
	Estimated Cost Construction	\$ -
	Operations & Maintenance (50 years)	\$ 22,060,000
	Total	\$ 24,060,000

Project ID: 001.DI.15



Planning Unit 4



Project Status Conceptual Phase

Scale of Influence

local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near term (Year 20)	8962 ac	5960 ac
Long Term (Year 50)	24743 ac	23616 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 14,190,000
Estimated Cost Construction		\$ 177,325,000
Operations & Maintenance (50 years)		\$ 35,460,000
Total		\$ 226,975,000

Central Wetlands (50,000 cfs)

Sediment Diversion

Project ID: 001.DI.19



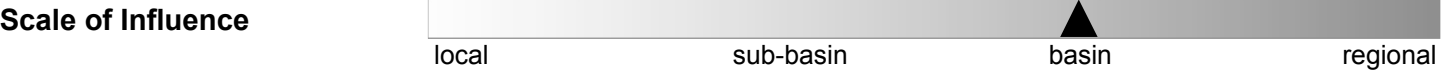
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source River-Use Workgroup

Project Status Conceptual Phase

Description Sediment diversion into Central Wetlands in the vicinity of Violet to build and maintain land, 50,000 cfs capacity (modeled at 50,000 cfs when Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation when river flow is below 200,000 cfs).



Land Area	Moderate		Less Optimistic	
	Near term (Year 20)		-307 ac	
	Long Term (Year 50)		8589 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	20,270,000
	Estimated Cost Construction		\$	253,316,000
	Operations & Maintenance (50 years)		\$	50,660,000
	Total		\$	324,246,000

East Maurepas (5,000 cfs)

Sediment Diversion

Project ID: 001.DI.21



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description

Diversion into eastern Maurepas Swamp in the vicinity of Hope Canal to sustain existing baldcypress-tupelo swamp habitat, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near term (Year 20)	-1309 ac	-1352 ac
Long Term (Year 50)	-636 ac	-606 ac
Project Cost Estimate		
Planning/Engineering & Design	\$	13,900,000
Estimated Cost Construction	\$	173,773,000
Operations & Maintenance (50 years)	\$	34,750,000
Total	\$	222,423,000

Project ID: 001.DI.22



Planning Unit 4



Project Status Conceptual Phase

Scale of Influence



local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near term (Year 20)	308 ac	1515 ac
Long Term (Year 50)	1251 ac	8498 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 25,560,000
Estimated Cost Construction		\$ 319,459,000
Operations & Maintenance (50 years)		\$ 63,890,000
Total		\$ 408,909,000

Project ID: 001.DI.24



Planning Unit 4



Project Status Conceptual Phase

Description	Sediment diversion into mid-Breton Sound in the vicinity of White Ditch to provide sediment for emergent marsh creation and nutrients to sustain existing wetlands, 50,000 cfs capacity (modeled at 50,000 cfs when Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation when river flow is below 200,000 cfs).
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local sub-basin basin regional

Less Optimistic

-3490 ac

14621 ac

\$ 14,210,000

\$ 177,612,000

\$ 35,520,000

\$ 227,342,000

Project ID: 001.DI.25



Planning Unit 4



CWPPRA

Engineering and Design

Sediment diversion into the eastern Bird's Foot Delta in the vicinity of Benneys Bay to build and maintain land, 20,000 cfs capacity (modeled as an uncontrolled diversion continuously operated at 20,000 cfs).

local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1344 ac	509 ac
Long Term (Year 50)	3482 ac	1320 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 1,890,000
Estimated Cost Construction		\$ 23,639,000
Operations & Maintenance (50 years)		\$ 17,020,000
Total		\$ 42,549,000

Pontchartrain-Barataria Multi-Diversion Plan

Sediment Diversion

Project ID: 001.DI.30



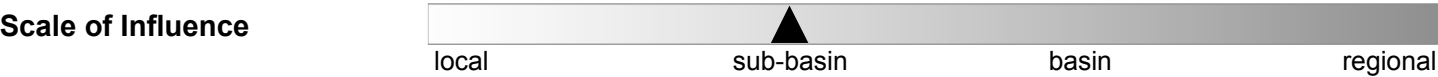
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description

Multiple small diversions into Barataria and Breton Sound to build and maintain land: 5,000 cfs diversions at Maurepas, Bonnet Carre, Northwest Barataria, Hahnville, Central Wetlands, Upper Breton, Mid-Breton, Mid-Barataria, Hermitage, and lower Breton (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs); 10,000 cfs diversions in the upper Bird's Foot Delta in the vicinities of Empire, Venice, and Baptiste Collette.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	6383 ac	6721 ac
Long Term (Year 50)	66102 ac	62886 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 105,490,000
	Estimated Cost Construction	\$ 1,360,713,000
	Operations & Maintenance (50 years)	\$ 309,200,000
	Total	\$ 1,775,403,000

Spanish Pass (7,000 cfs)

Sediment Diversion

Project ID: 002.DI.01



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	CWPPRA
Project Status	Engineering and Design
Description	Sediment diversion at Spanish Pass to build and maintain land, 7,000 cfs capacity (modeled as an uncontrolled diversion continuously operated at 7,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-1748 ac	-2339 ac
Long Term (Year 50)	8149 ac	2983 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 4,180,000
	Estimated Cost Construction	\$ 52,280,000
	Operations & Maintenance (50 years)	\$ 10,460,000
	Total	\$ 66,920,000

Mid-Barataria (5,000 cfs)

Sediment Diversion

Project ID: 002.DI.02



- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Engineering and Design

Description

Sediment diversion into mid-Barataria in the vicinity of Myrtle Grove to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).



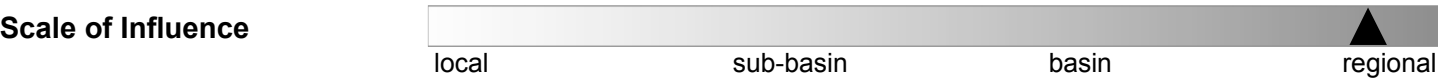
Land Area	Moderate		Less Optimistic	
	Near Term (Year 20)		1622 ac	
	Long Term (Year 50)		12693 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	10,220,000
	Estimated Cost Construction		\$	127,783,000
	Operations & Maintenance (50 years)		\$	25,560,000
	Total		\$	163,563,000



Project Source River-Use Workgroup

Project Status Conceptual Phase

Description Sediment diversion into mid-Barataria in the vicinity of Myrtle Grove to build and maintain land, 250,000 cfs capacity (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for flows between 600,000-900,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation below 200,000 cfs).



Land Area	Moderate		Less Optimistic	
	Near Term (Year 20)		6464 ac	
	Long Term (Year 50)		66196 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	75,170,000
	Estimated Cost Construction		\$	952,772,000
	Operations & Maintenance (50 years)		\$	190,550,000
	Total		\$	1,218,492,000

Northwest Barataria (5,000 cfs)

Sediment Diversion

Project ID: 002.DI.05



- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion in Northwest Barataria to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	328 ac	-121 ac
Long Term (Year 50)	608 ac	-2813 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 11,380,000
Estimated Cost Construction		\$ 142,213,000
Operations & Maintenance (50 years)		\$ 28,440,000
Total		\$ 182,033,000

West Pointe a la Hache (5,000 cfs)

Sediment Diversion

Project ID: 002.DI.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion in the vicinity of West Pointe a la Hache to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1237 ac	-31 ac
Long Term (Year 50)	20420 ac	9908 ac

Project Cost Estimate

Planning/Engineering & Design	\$	7,920,000
Estimated Cost Construction	\$	99,044,000
Operations & Maintenance (50 years)	\$	19,810,000
Total	\$	126,774,000

West Pointe a la Hache (50,000 cfs)

Sediment Diversion

Project ID: 002.DI.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion in the vicinity of West Pointe a la Hache to build and maintain land, 50,000 cfs capacity (modeled at 50,000 cfs when Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation for river flows below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	2323 ac	1501 ac
Long Term (Year 50)	21397 ac	17364 ac

Project Cost Estimate

Planning/Engineering & Design	\$	16,600,000
Estimated Cost Construction	\$	207,511,000
Operations & Maintenance (50 years)	\$	41,500,000
Total	\$	265,611,000

West Pointe a la Hache (250,000 cfs)

Sediment Diversion

Project ID: 002.DI.09



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion in the vicinity of West Pointe a la Hache to build and maintain land, 250,000 cfs capacity (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for river flows between 600,000-900,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation for river flows below 200,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	5881 ac	2563 ac
Long Term (Year 50)	30209 ac	31583 ac

Project Cost Estimate

Planning/Engineering & Design	\$	50,630,000
Estimated Cost Construction	\$	633,118,000
Operations & Maintenance (50 years)	\$	126,620,000
Total	\$	810,368,000

Lower Barataria (5,000 cfs)

Sediment Diversion

Project ID: 002.DI.14



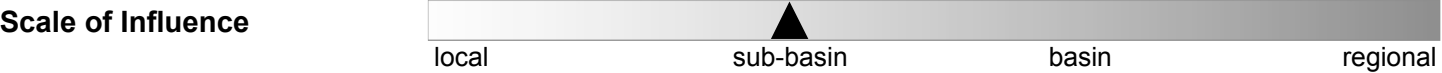
- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source River-Use Workgroup

Project Status Conceptual Phase

Description Sediment diversion into lower Barataria in the vicinity of Empire to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-827 ac	-1672 ac
Long Term (Year 50)	11292 ac	3032 ac

Project Cost Estimate		
Planning/Engineering & Design	\$	7,160,000
Estimated Cost Construction	\$	89,465,000
Operations & Maintenance (50 years)	\$	17,890,000
Total	\$	114,515,000

Lower Barataria (250,000 cfs)

Sediment Diversion

Project ID: 002.DI.16



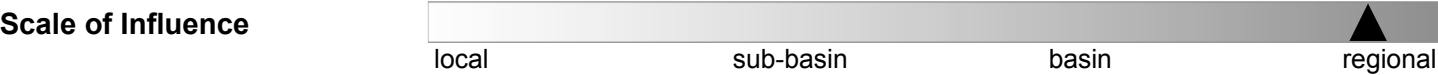
- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description

Sediment diversion into lower Barataria in the vicinity of Empire to build and maintain land, 250,000 cfs (modeled at 250,000 cfs when Mississippi River flow exceeds 900,000 cfs, at 50,000 cfs for river flows between 600,000-900,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	491 ac	-189 ac
Long Term (Year 50)	20878 ac	18596 ac

Project Cost Estimate	Planning/Engineering & Design	\$	42,130,000
	Estimated Cost Construction	\$	526,566,000
	Operations & Maintenance (50 years)	\$	105,310,000
	Total	\$	674,006,000

Sediment Diversion

Planning Unit 4



River-Use Workgroup

Conceptual Phase

Sediment diversion into upper Barataria Basin in the vicinity of Hahnville to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).

local sub-basin basin regional

Less Optimistic

-1657 ac

268 ac

\$ 15,360,000

\$ 192,061,000

\$ 38,410,000

\$ 245,831,000

Hermitage (5,000 cfs)
Sediment Diversion
Project ID: 002.DI.18



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

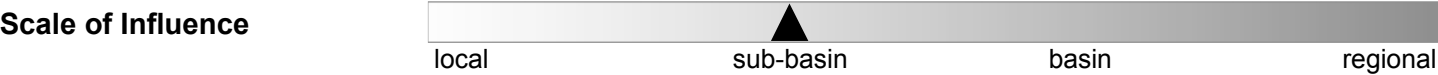
River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion in the vicinity of Hermitage to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs when the Mississippi River flow exceeds 200,000 cfs and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-195 ac	-2992 ac
Long Term (Year 50)	21621 ac	-1326 ac
Project Cost Estimate		
Planning/Engineering & Design		\$9,460,000
Estimated Cost Construction		\$118,203,000
Operations & Maintenance (50 years)		\$23,640,000
Total		\$151,303,000

Hermitage (250,000 cfs Seasonally Operated)

Sediment Diversion

Project ID: 002.DI.19



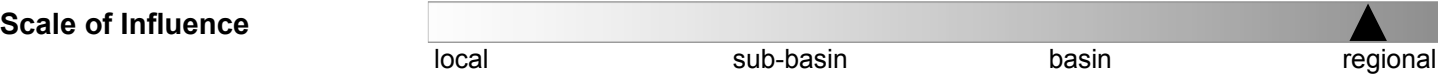
- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase

Description

Sediment diversion in the vicinity of Hermitage to build and maintain land, 250,000 cfs capacity with operation only from January through May (modeled at 250,000 cfs during operational period when Mississippi River flow exceeds 600,000 cfs, at 8% of river flows between 200,000-600,000 cfs, and no operation for river flows below 200,000 cfs).

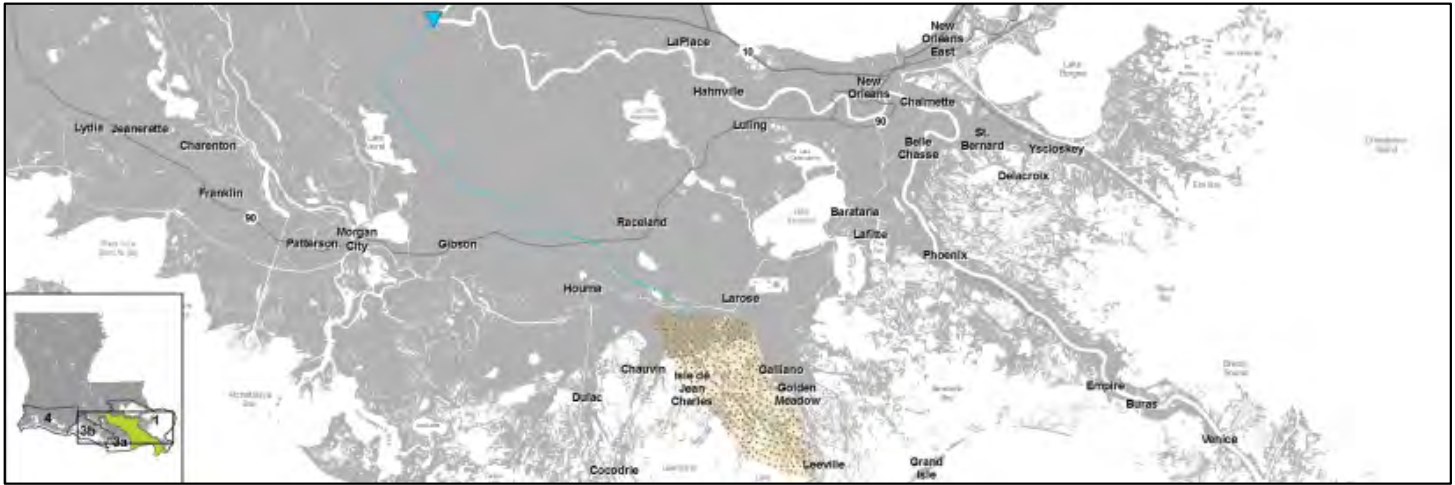


Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	4555 ac	1379 ac
	Long Term (Year 50)	39021 ac	37678 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 67,070,000	
	Estimated Cost Construction	\$ 846,220,000	
	Operations & Maintenance (50 years)	\$ 169,240,000	
	Total	\$ 1,082,530,000	

Project ID: 002.DI.21



Planning Unit 4



Description	Sediment diversion into eastern Terrebonne via a 290,000-foot conveyance channel off the Mississippi River upstream from Donaldsonville, 50,000 cfs capacity (western fork only).
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local sub-basin basin regional

Less Optimistic

9607 ac

35054 ac

\$ 337,510,000

\$ 5,233,993,000

\$ 2,093,600,000

\$ 7,665,103,000

Bayou Lafourche (5,000 cfs)

Sediment Diversion

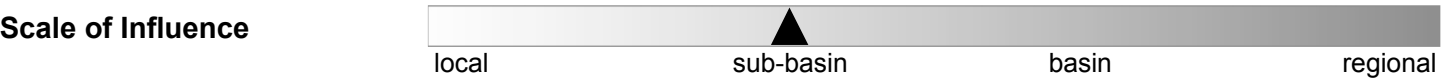
Project ID: 03a.DI.08



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	River-Use Workgroup
Project Status	Conceptual Phase
Description	Sediment diversion of the Mississippi River into Bayou Lafourche to build and maintain land, 5,000 cfs capacity (modeled at 5,000 cfs for river flows above 200,000 cfs and no operation for river flows below 200,000 cfs).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3300 ac	4283 ac
Long Term (Year 50)	22212 ac	15784 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 187,440,000
	Estimated Cost Construction	\$ 2,549,424,000
	Operations & Maintenance (50 years)	\$ 509,880,000
	Total	\$ 3,246,744,000

Violet, Davis Pond, and Bayou Lafourche (100,000 cfs)

Sediment Diversion

Project ID: 03b.DI.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Coastal Sustainability Studio

Project Status

Conceptual Phase

Description

Sediment diversions at Mississippi River Gulf Outlet/Violet, Davis Pond, and Bayou Lafourche to build and maintain land, 100,000 cfs capacity each (modeled with no operation for river flows below 600,000 cfs; for flows between 600,000 and 1.25 million cfs, modeled with one diversion operated at a time for 3-4 months; for flows above 1.25 million cfs, all three diversions operated simultaneously).

Scale of Influence



Land Area

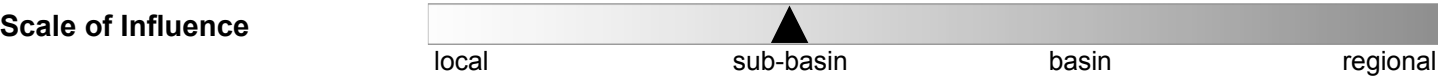
	Moderate	Less Optimistic
Near Term (Year 20)	1822 ac	2510 ac
Long Term (Year 50)	3647 ac	17915 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 499,370,000
Estimated Cost Construction	\$ 11,586,004,000
Operations & Maintenance (50 years)	\$ 2,317,200,000
Total	\$ 14,402,574,000



Project Source	Jefferson Parish Master Plan
Project Status	Conceptual Phase
Description	Channel management of Bayou Rigolets, Bayou Perot, and Harvey Cut Channel via sheet pile walls with boat bays to restrict tidal flow and reduce saltwater intrusion into the upper Barataria Basin.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-147 ac	-393 ac
Long Term (Year 50)	82 ac	-1791 ac
Project Cost Estimate		
Planning/Engineering & Design	\$	3,010,000
Estimated Cost Construction	\$	37,654,000
Operations & Maintenance (50 years)	\$	9,610,000
Total	\$	50,274,000

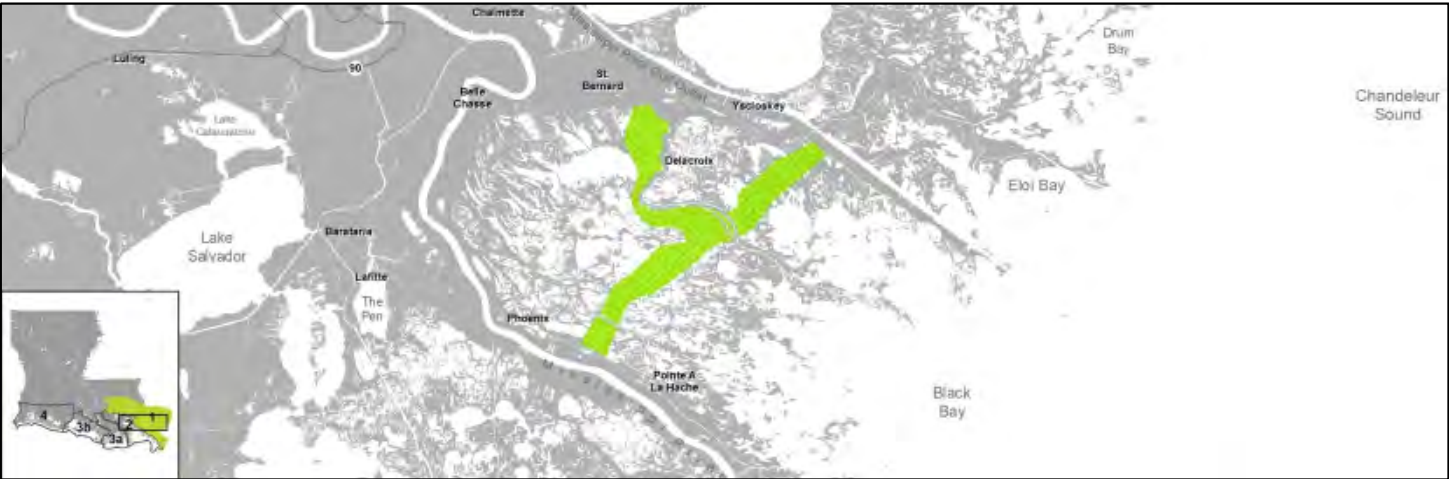
Breton Landbridge

Marsh Creation

Project ID: 001.MC.04



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

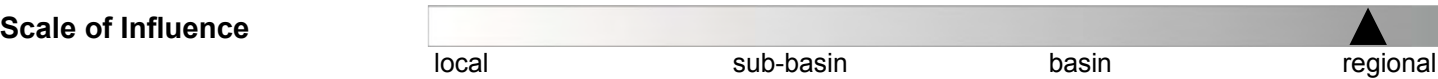
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 19,720 acres of marsh in the Breton Landbridge from MRGO to the Mississippi River (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	19782 ac	19562 ac
Long Term (Year 50)	19631 ac	18658 ac
Project Cost Estimate		
Planning/Engineering & Design		\$289,830,000
Estimated Cost Construction		\$4,110,401,000
Operations & Maintenance (50 years)		\$63,400,000
Total		\$4,463,631,000

Project ID: 001.MC.04a



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 10,250 acres of marsh in the Breton Landbridge from Bayou Terre aux Boeufs to the Mississippi River (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.04).

local sub-basin basin regional

Less Optimistic

Near Term (Year 20)

11476 ac

11334 ac

Long Term (Year 50)

11351 ac

10850 ac

Planning/Engineering & Design

\$ 166,110,000

Estimated Cost Construction

\$ 2,137,409,000

Operations & Maintenance (50 years)

\$ 32,970,000

Total

\$ 2,336,489,000

Breton Landbridge- Component B

Marsh Creation

Project ID: 001.MC.04b



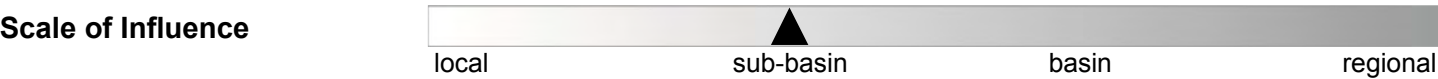
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 5,320 acres of marsh in the Breton Landbridge from MRGO to Bayou Terre aux Boeufs (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.04).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	2206 ac	2169 ac
Long Term (Year 50)	2189 ac	2173 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 90,420,000
	Estimated Cost Construction	\$ 1,109,808,000
	Operations & Maintenance (50 years)	\$ 17,120,000
	Total	\$ 1,217,348,000

Breton Landbridge- Component C

Marsh Creation

Project ID: 001.MC.04c



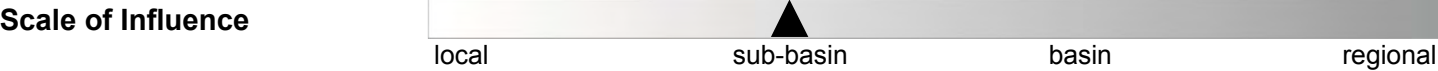
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 4,140 acres of marsh in the Breton Landbridge between Lake Lery and Bayou Terre aux Boeufs (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.04).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4397 ac	4394 ac
Long Term (Year 50)	4380 ac	4396 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 71,100,000
Estimated Cost Construction		\$ 863,184,000
Operations & Maintenance (50 years)		\$ 13,310,000
Total		\$ 947,594,000

Breton
Marsh Creation

Project ID: 001.MC.06



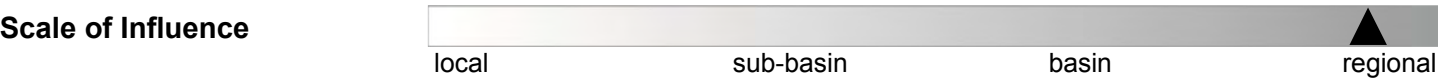
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 17,420 acres of marsh from Caernarvon to Phoenix and along Bayou Terre aux Boeufs (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	17349 ac	17161 ac
Long Term (Year 50)	17053 ac	15355 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 235,660,000
	Estimated Cost Construction	\$ 3,190,122,000
	Operations & Maintenance (50 years)	\$ 55,560,000
	Total	\$ 3,481,342,000

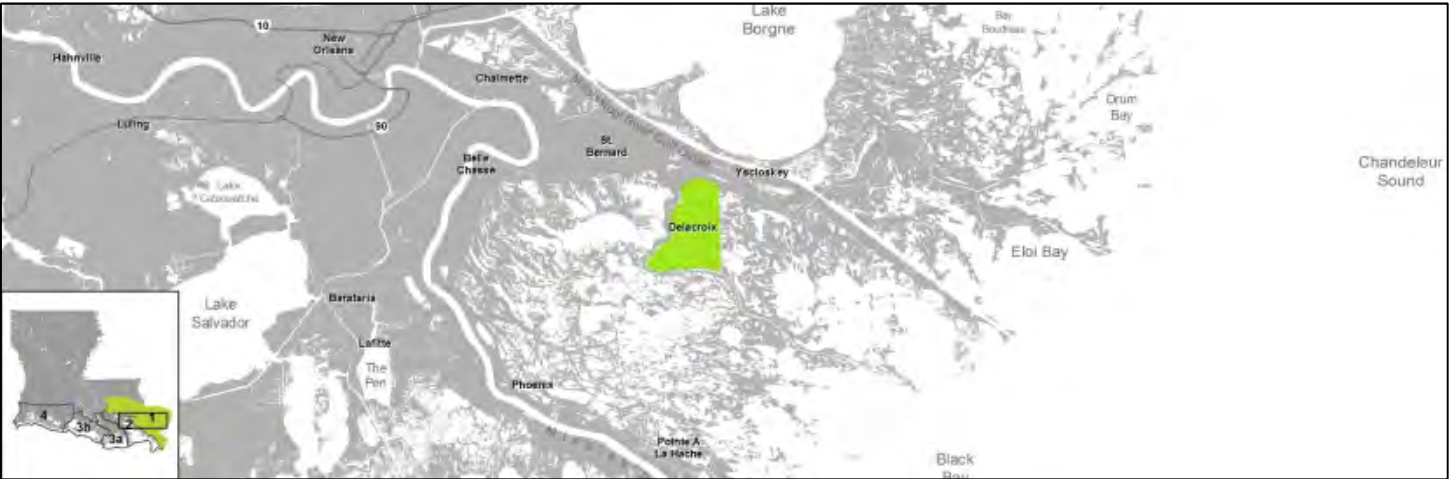
Breton- Component A

Marsh Creation

Project ID: 001.MC.06a



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

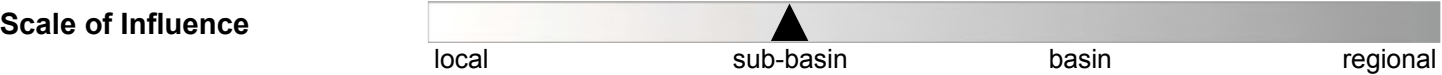
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 5,580 acres of marsh along the east bank of Bayou Terre aux Boeufs (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.06).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	6477 ac	6473 ac
Long Term (Year 50)	6367 ac	6460 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 83,500,000
Estimated Cost Construction		\$ 1,020,839,000
Operations & Maintenance (50 years)		\$ 17,780,000
Total		\$ 1,122,119,000

Breton- Component B

Marsh Creation

Project ID: 001.MC.06b

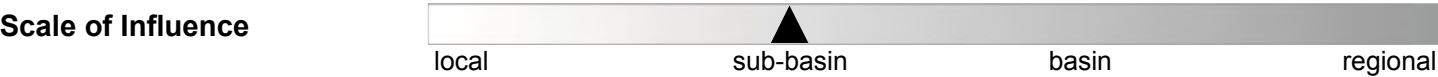


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description	Creation of approximately 3,830 acres of marsh along the west bank of Bayou Terre aux Boeufs (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.06).
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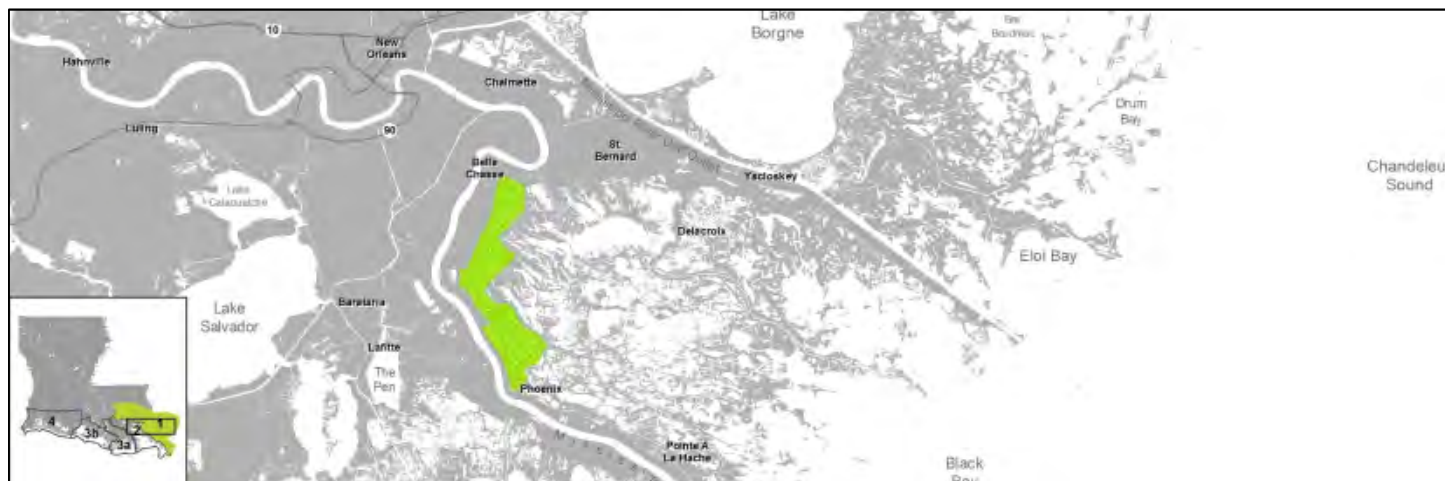


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4671 ac	4673 ac
Long Term (Year 50)	4640 ac	4672 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 58,220,000
	Estimated Cost Construction	\$ 701,827,000
	Operations & Maintenance (50 years)	\$ 12,220,000
	Total	\$ 772,267,000

Project ID: 001.MC.06c



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 8,010 acres of marsh from Caernarvon to Phoenix (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.06).

local sub-basin basin regional

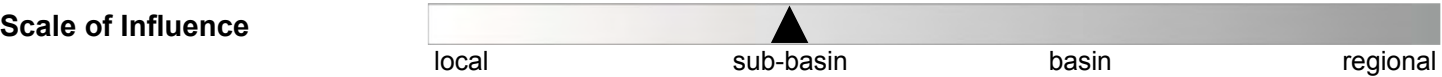
Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5067 ac	5023 ac
Long Term (Year 50)	4888 ac	3296 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 117,640,000
	Estimated Cost Construction	\$ 1,467,456,000
	Operations & Maintenance (50 years)	\$ 25,560,000
	Total	\$ 1,610,656,000



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 4,460 acres of marsh along the south shoreline of Lake Borgne near Proctors Point (through sediment dredging of Lake Borgne and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4643 ac	4556 ac
Long Term (Year 50)	4555 ac	4552 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 92,190,000
	Estimated Cost Construction	\$ 1,132,722,000
	Operations & Maintenance (50 years)	\$ 14,700,000
	Total	\$ 1,239,612,000

Project ID: 001.MC.08



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 4,670 acres of marsh in Central Wetlands near Bayou Bienvenue (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Less Optimistic

4396 ac

514 ac

\$ 40,800,000

\$ 489,654,000

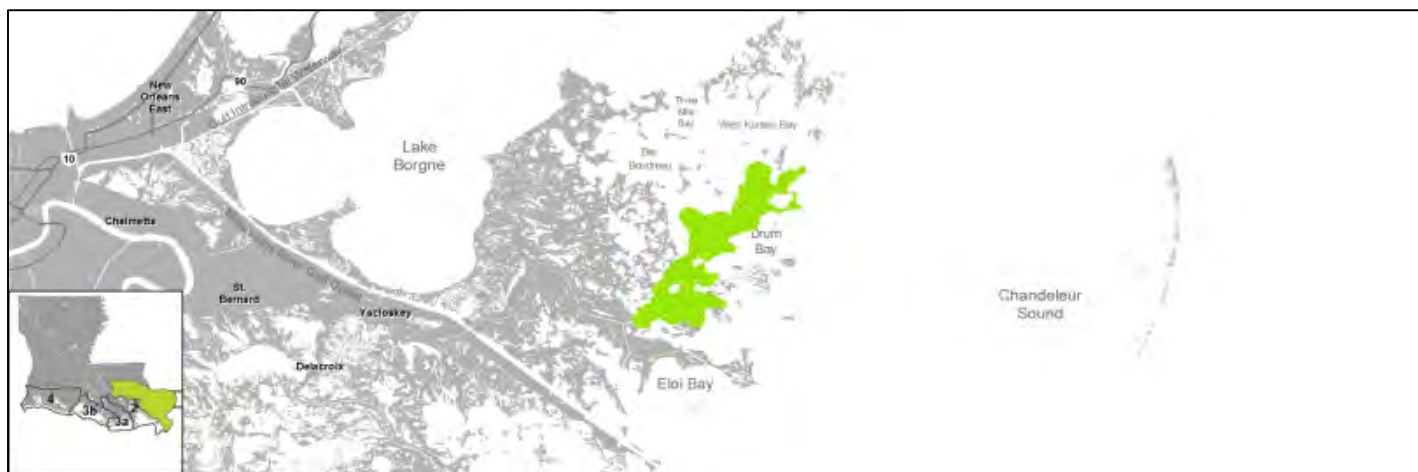
\$ 15,390,000

\$ 545,844,000

Project ID: 001.MC.09a



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 14,970 acres in the southwestern portion of marsh in Biloxi Marsh near Drum Bay (through sediment dredging of Breton Sound and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.09).

local sub-basin basin regional

Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	16038 ac	16037 ac
	Long Term (Year 50)	16044 ac	16044 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 101,430,000
	Estimated Cost Construction		\$ 1,253,039,000
	Operations & Maintenance (50 years)		\$ 48,520,000
	Total		\$ 1,402,989,000

LaBranche
Marsh Creation

Project ID: 001.MC.10



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

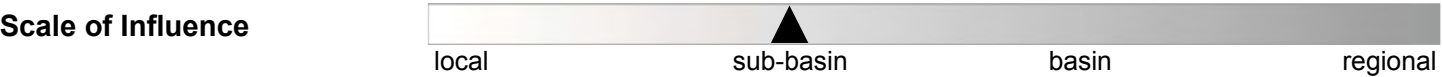
LACPR

Project Status

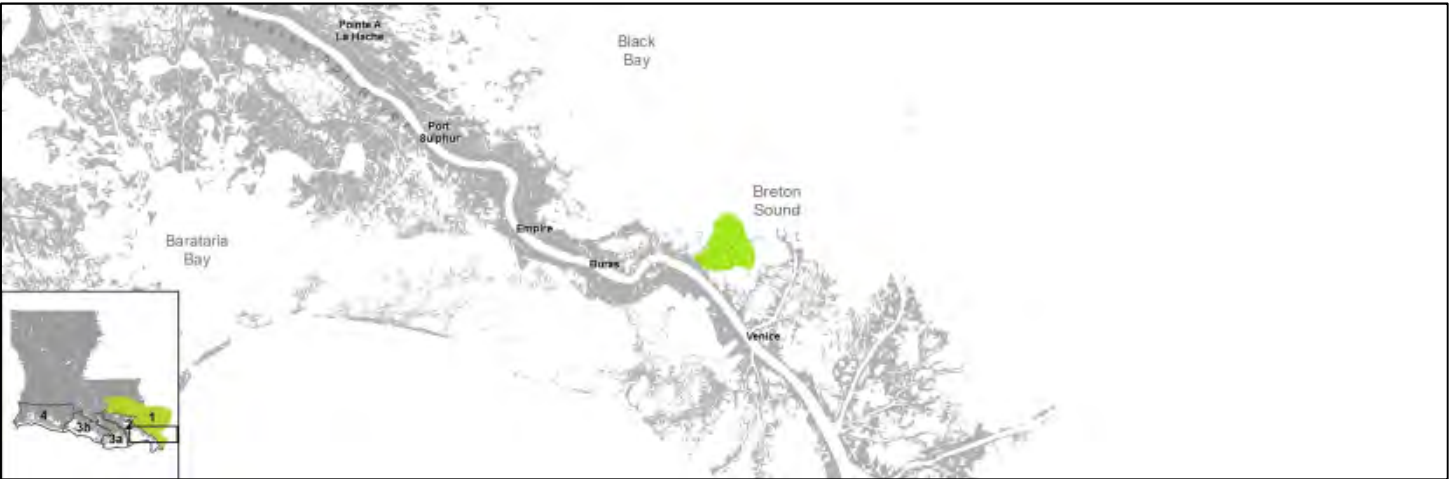
Conceptual Phase

Description

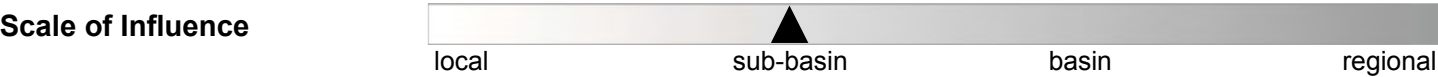
Creation of approximately 2,740 acres of marsh in the LaBranche Wetlands (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1020 ac	1020 ac
Long Term (Year 50)	1016 ac	1020 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 27,770,000
Estimated Cost Construction		\$ 333,253,000
Operations & Maintenance (50 years)		\$ 9,080,000
Total		\$ 370,103,000



Project Source	LCA Comprehensive Study
Project Status	Conceptual Phase
Description	Creation of approximately 5,160 acres of marsh near Fort St. Phillip (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5166 ac	3772 ac
Long Term (Year 50)	4558 ac	539 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 45,440,000
	Estimated Cost Construction	\$ 545,233,000
	Operations & Maintenance (50 years)	\$ 16,890,000
	Total	\$ 607,563,000

Quarantine Bay
Marsh Creation
Project ID: 001.MC.12



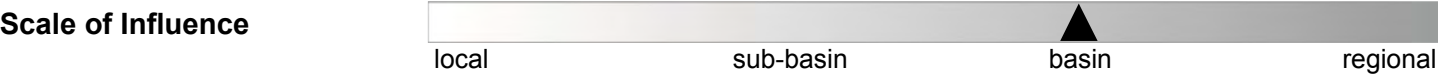
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LCA Comprehensive Study
Project Status	Conceptual Phase

Description

Creation of approximately 16,730 acres of marsh at Quarantine Bay (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	16758 ac	16758 ac
	Long Term (Year 50)	16758 ac	10901 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 200,080,000	
	Estimated Cost Construction	\$ 2,636,329,000	
	Operations & Maintenance (50 years)	\$ 53,720,000	
	Total	\$ 2,890,129,000	

Quarantine Bay- Component A

Marsh Creation

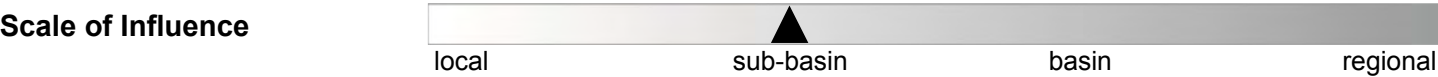
Project ID: 001.MC.12a



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LCA Comprehensive Study
Project Status	Conceptual Phase
Description	Creation of approximately 7,360 acres of marsh at Quarantine Bay (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.12).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	7590 ac	6877 ac
Long Term (Year 50)	7610 ac	4005 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 94,290,000
	Estimated Cost Construction	\$ 1,159,985,000
	Operations & Maintenance (50 years)	\$ 23,640,000
	Total	\$ 1,277,915,000

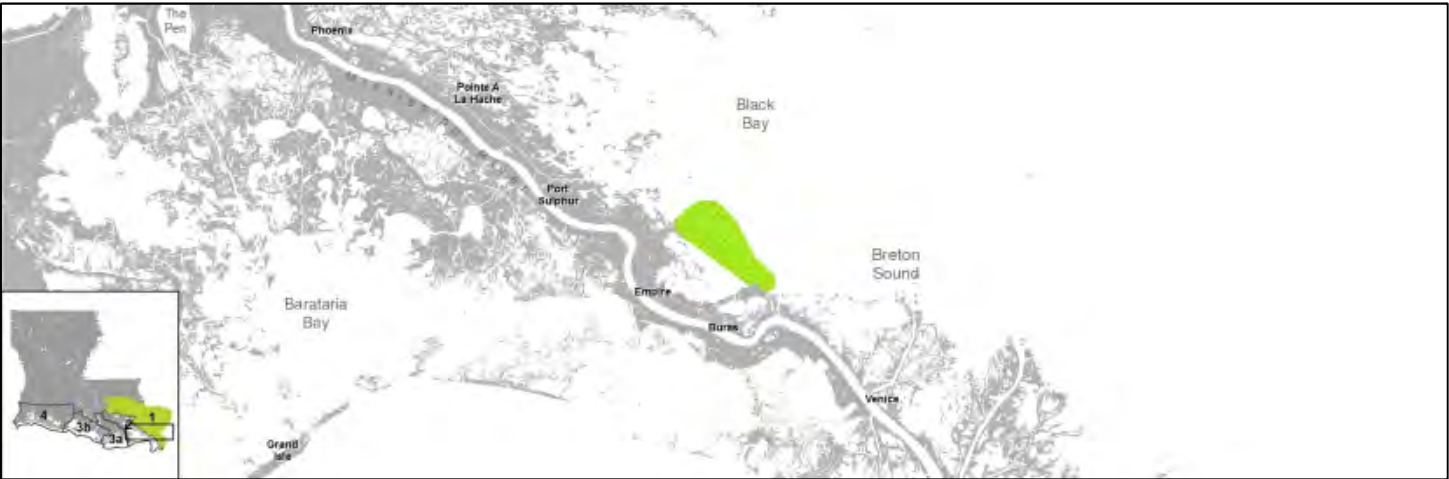
Quarantine Bay- Component B

Marsh Creation

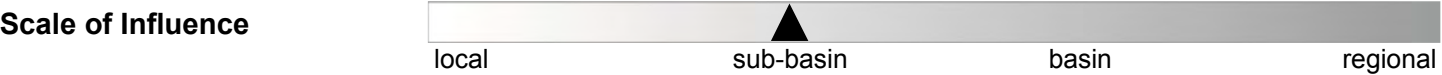
Project ID: 001.MC.12b



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LCA Comprehensive Study
Project Status	Conceptual Phase
Description	Creation of approximately 9,370 acres of marsh at Quarantine Bay (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 001.MC.12).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	8048 ac	7800 ac
Long Term (Year 50)	8041 ac	6106 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 118,300,000
	Estimated Cost Construction	\$ 1,476,344,000
	Operations & Maintenance (50 years)	\$ 30,080,000
	Total	\$ 1,624,724,000

Bayou Bonfouca

Marsh Creation

Project ID: 001.MC.14

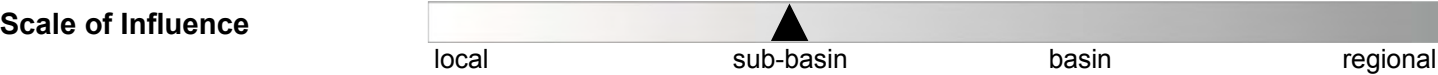


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	CWPPRA
Project Status	Engineering and Design

Description	Creation of approximately 480 acres of marsh on the north shore of Lake Pontchartrain near Bayou Bonfouca (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	485 ac	486 ac
Long Term (Year 50)	478 ac	484 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 10,490,000
	Estimated Cost Construction	\$ 125,874,000
	Operations & Maintenance (50 years)	\$ 1,990,000
	Total	\$ 138,354,000

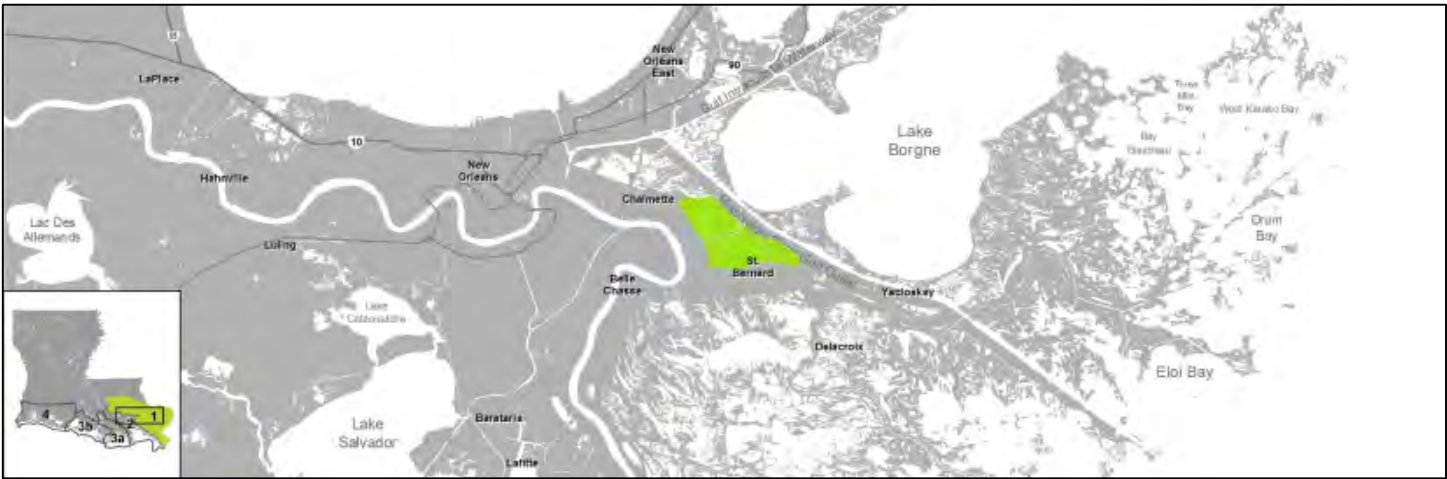
Central Wetlands South

Marsh Creation

Project ID: 001.MC.15

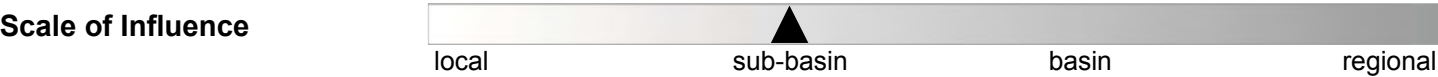


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	MRGO Ecosystem Restoration Study
Project Status	Planning and Feasibility

Description	Creation of approximately 1,160 acres of marsh in Central Wetlands near Violet Canal (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.
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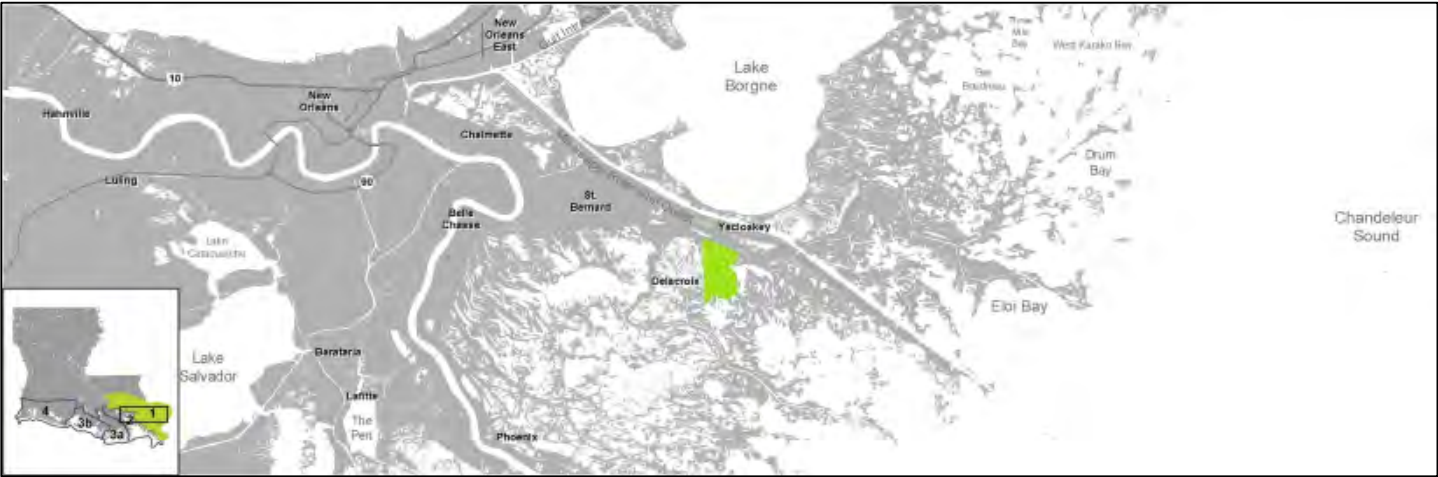
Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1177 ac	1180 ac
Long Term (Year 50)	1158 ac	-24 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 30,310,000
	Estimated Cost Construction	\$ 363,662,000
	Operations & Maintenance (50 years)	\$ 4,160,000
	Total	\$ 398,132,000

Lake Ameda Marsh Creation

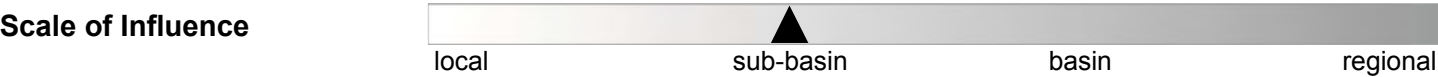
Project ID: 001.MC.16



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	MRGO Ecosystem Restoration Study
Project Status	Planning and Feasibility
Description	Creation of approximately 1,400 acres of marsh near the south bank of MRGO in the vicinity of Lake Ameda (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1401 ac	1388 ac
Long Term (Year 50)	1393 ac	1395 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 27,830,000
	Estimated Cost Construction	\$ 334,007,000
	Operations & Maintenance (50 years)	\$ 4,940,000
	Total	\$ 366,777,000

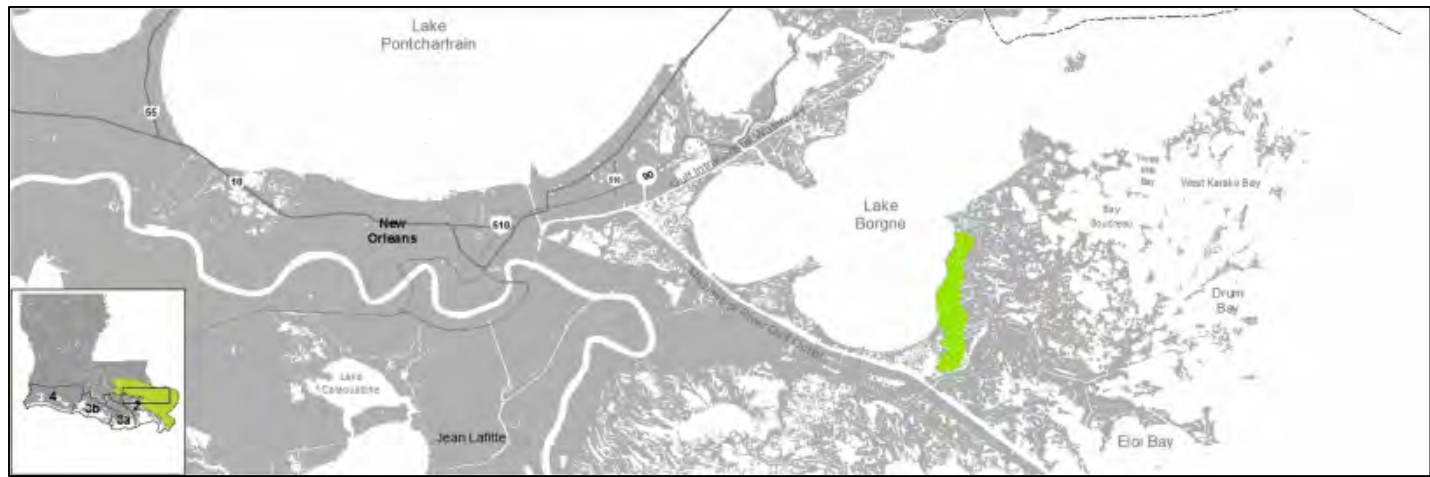
Eastern Lake Borgne

Marsh Creation

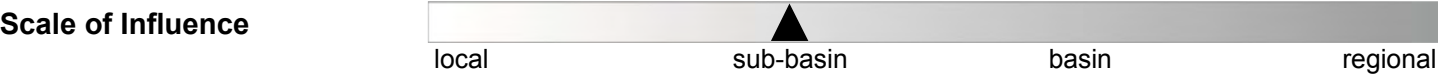
Project ID: 001.MC.17



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	MRGO Ecosystem Restoration Study
Project Status	Planning and Feasibility
Description	Creation of approximately 1,890 acres of marsh along the eastern shore of Lake Borgne south of Point au Marchettes (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1912 ac	1863 ac
Long Term (Year 50)	1892 ac	1850 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 16,710,000
	Estimated Cost Construction	\$ 200,481,000
	Operations & Maintenance (50 years)	\$ 6,490,000
	Total	\$ 223,681,000

Lake Pontchartrain Rim- Jefferson Parish

Marsh Creation

Project ID: 001.MC.18

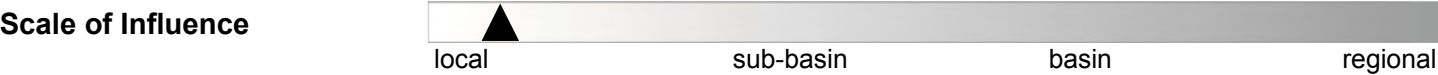


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	MLODS
Project Status	Conceptual Phase

Description	Creation of approximately 320 acres of marsh buffer in front of the Lake Pontchartrain levees in Jefferson Parish (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.
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Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	105 ac	110 ac
	Long Term (Year 50)	100 ac	52 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 11,520,000	
	Estimated Cost Construction	\$ 138,227,000	
	Operations & Maintenance (50 years)	\$ 2,510,000	
	Total	\$ 152,257,000	

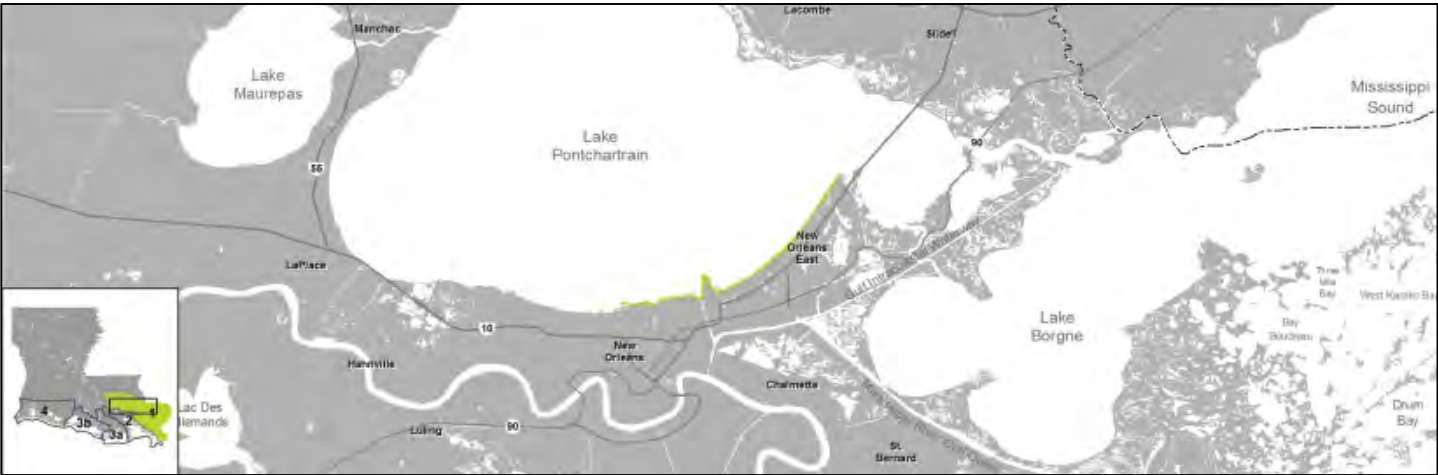
Lake Pontchartrain Rim- Orleans Parish

Marsh Creation

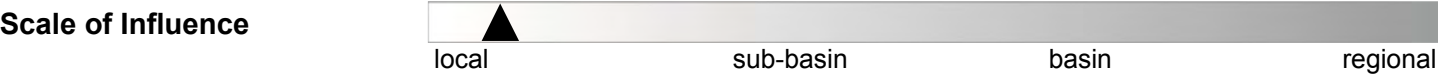
Project ID: 001.MC.19



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



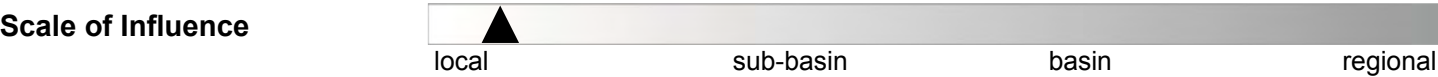
Project Source	MLODS
Project Status	Conceptual Phase
Description	Creation of approximately 700 acres of marsh buffer in front of the Lake Pontchartrain levees in Orleans Parish (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	438 ac	441 ac
Long Term (Year 50)	406 ac	139 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 12,700,000
	Estimated Cost Construction	\$ 152,444,000
	Operations & Maintenance (50 years)	\$ 3,700,000
	Total	\$ 168,844,000



Project Source	LDWF
Project Status	Conceptual Phase
Description	Creation of approximately 580 acres of marsh along Pass a Loutre (through sediment dredging of Pass a Loutre and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	566 ac	543 ac
Long Term (Year 50)	466 ac	591 ac
Project Cost Estimate		
Planning/Engineering & Design	\$	5,620,000
Estimated Cost Construction	\$	67,458,000
Operations & Maintenance (50 years)	\$	2,320,000
Total	\$	75,398,000

Venice Ponds

Marsh Creation

Project ID: 002.MC.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Creation of approximately 1,580 acres of marsh near Venice Ponds (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence

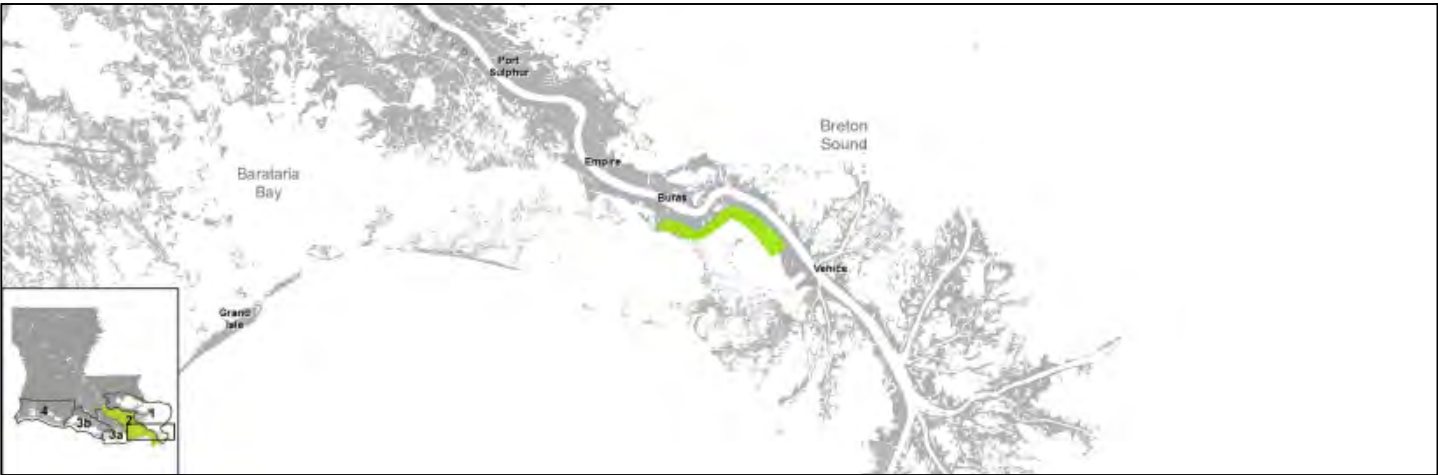


Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1576 ac	1437 ac
Long Term (Year 50)	1284 ac	1301 ac

Project Cost Estimate

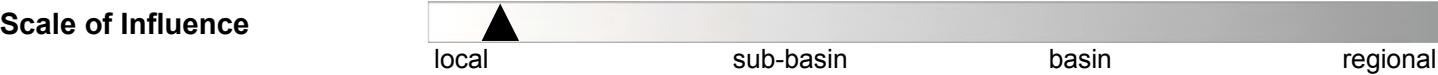
Planning/Engineering & Design	\$	12,150,000
Estimated Cost Construction	\$	145,846,000
Operations & Maintenance (50 years)	\$	5,510,000
Total	\$	163,506,000



Project Source Plaquemines Parish Master Plan

Project Status Conceptual Phase

Description Creation of approximately 1,600 acres of marsh adjacent to Buras-Venice back levee (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	790 ac	768 ac
Long Term (Year 50)	-10 ac	-2 ac

Project Cost Estimate		
Planning/Engineering & Design	\$	13,330,000
Estimated Cost Construction	\$	159,952,000
Operations & Maintenance (50 years)	\$	5,510,000
Total	\$	178,792,000

Lower Barataria

Marsh Creation

Project ID: 002.MC.04



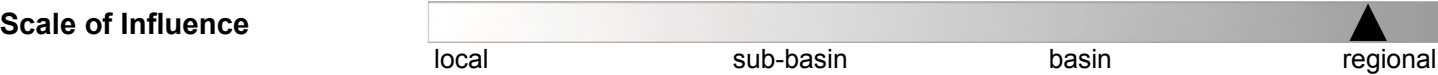
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 32,510 acres of marsh in the Lower Barataria Basin from the Barataria Waterway to East Golden Meadow (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

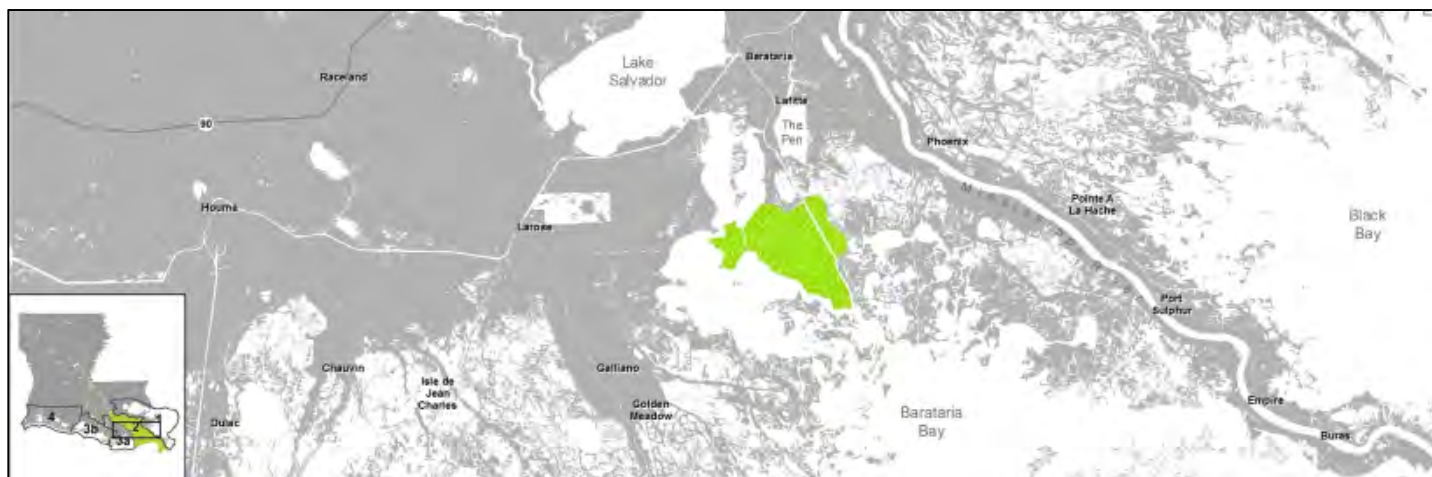


Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	32701 ac	32701 ac
	Long Term (Year 50)	32169 ac	31602 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 432,370,000	
	Estimated Cost Construction	\$ 7,384,333,000	
	Operations & Maintenance (50 years)	\$ 103,270,000	
	Total	\$ 7,919,973,000	

Project ID: 002.MC.04a



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 10,400 acres of marsh in the Lower Barataria Basin from the Barataria Waterway to Little Lake (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion(component of 002.MC.04).

local sub-basin basin regional

Less Optimistic

8311 ac

1043 ac

\$ 181,700,000

\$ 2,362,987,000

\$ 33,050,000

\$ 2,577,737,000

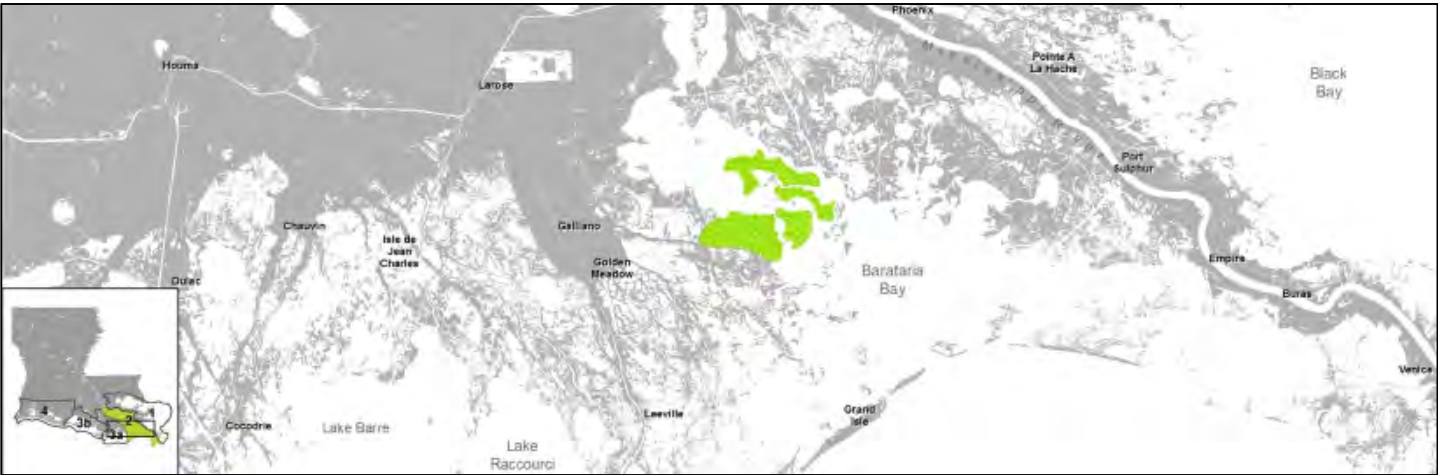
Lower Barataria- Component B

Marsh Creation

Project ID: 002.MC.04b

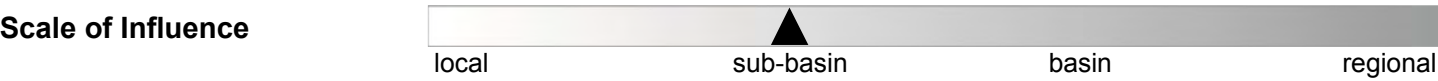


- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description	Creation of approximately 8,130 acres of marsh in the Lower Barataria Basin along the southeastern shore of Little Lake (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.04).
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	6032 ac	6028 ac
Long Term (Year 50)	6029 ac	-152 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 145,440,000
	Estimated Cost Construction	\$ 1,846,083,000
	Operations & Maintenance (50 years)	\$ 25,820,000
	Total	\$ 2,017,343,000

Lower Barataria- Component C

Marsh Creation

Project ID: 002.MC.04c



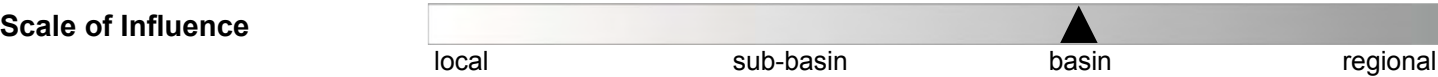
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 13,980 acres of marsh in the Lower Barataria Basin between Little Lake and East Golden Meadow (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.04).



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	15163 ac	15176 ac
	Long Term (Year 50)	15182 ac	874 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 234,740,000	
	Estimated Cost Construction	\$ 3,175,263,000	
	Operations & Maintenance (50 years)	\$ 44,400,000	
	Total	\$ 3,454,403,000	

Lower Barataria- Component D

Marsh Creation

Project ID: 002.MC.04d



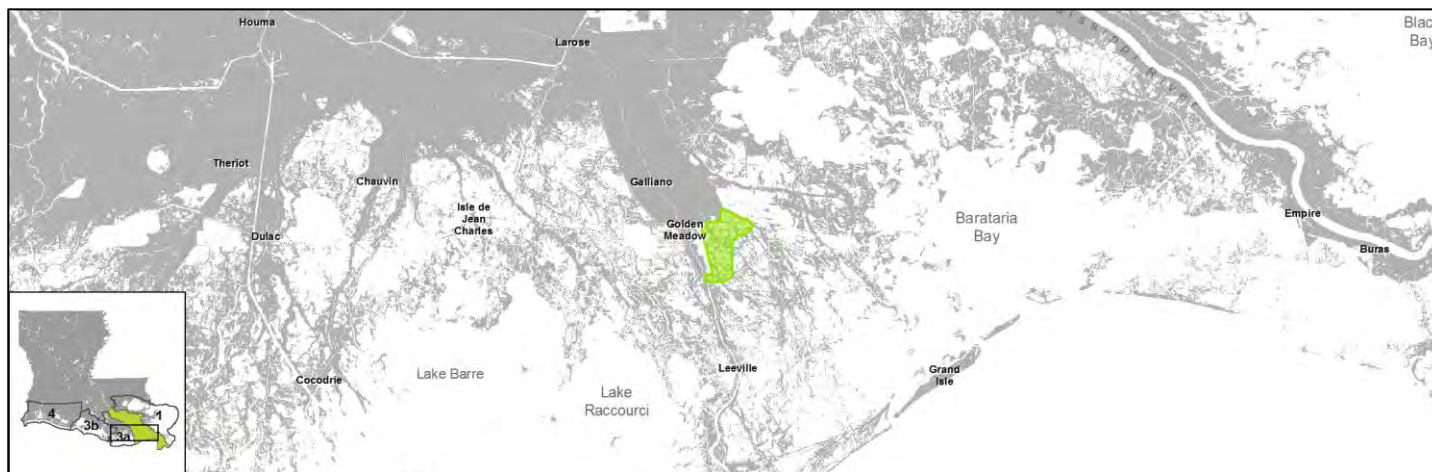
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,930 acres of marsh in the Lower Barataria Basin between Little Lake and East Golden Meadow (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.04).

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

3107 ac

3115 ac

Long Term (Year 50)

3116 ac

-20 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 55,230,000

Estimated Cost Construction

\$ 664,590,000

Operations & Maintenance (50 years)

\$ 9,290,000

Total

\$ 729,110,000

Large-Scale Barataria Marsh Creation

Project ID: 002.MC.05

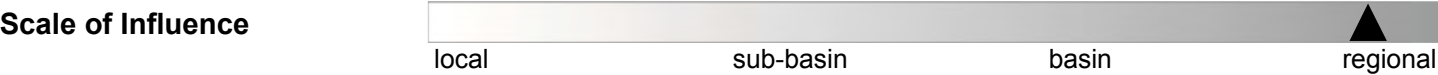


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description Creation of approximately 26,890 acres of marsh in the Barataria Basin from Myrtle Grove to the GIWW at Delta Ponds (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	26796 ac	26792 ac
	Long Term (Year 50)	26889 ac	24355 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 438,800,000	
	Estimated Cost Construction	\$ 7,593,248,000	
	Operations & Maintenance (50 years)	\$ 85,490,000	
	Total	\$ 8,117,538,000	

Large-Scale Barataria- Component A

Marsh Creation

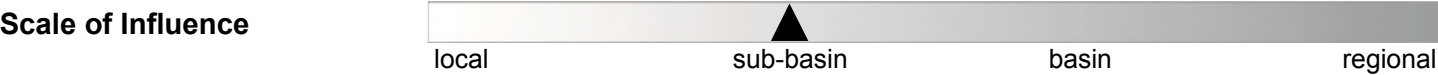
Project ID: 002.MC.05a



- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Creation of approximately 9,410 acres of marsh in the Barataria Basin from Myrtle Grove to the Barataria Waterway (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	10873 ac	10852 ac
Long Term (Year 50)	11057 ac	8372 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 201,490,000
	Estimated Cost Construction	\$ 2,657,637,000
	Operations & Maintenance (50 years)	\$ 29,920,000
	Total	\$ 2,889,047,000

Large-Scale Barataria- Component B

Marsh Creation

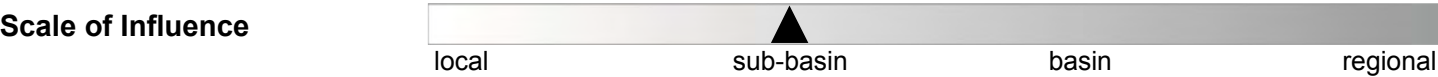
Project ID: 002.MC.05b



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Creation of approximately 5,380 acres of marsh in the Barataria Basin from the Pen to Bayou Perot (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5796 ac	5797 ac
Long Term (Year 50)	5776 ac	4571 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 121,460,000
	Estimated Cost Construction	\$ 1,518,650,000
	Operations & Maintenance (50 years)	\$ 17,100,000
	Total	\$ 1,657,210,000

Large-Scale Barataria- Component C

Marsh Creation

Project ID: 002.MC.05c



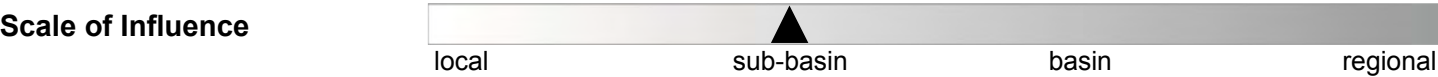
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 9,140 acres of marsh in the Barataria Basin from Bayou Perot to Lake Salvador (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3210 ac	3201 ac
Long Term (Year 50)	3103 ac	1405 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 196,450,000
Estimated Cost Construction		\$ 2,581,704,000
Operations & Maintenance (50 years)		\$ 29,070,000
Total		\$ 2,807,224,000

Large-Scale Barataria- Component D

Marsh Creation

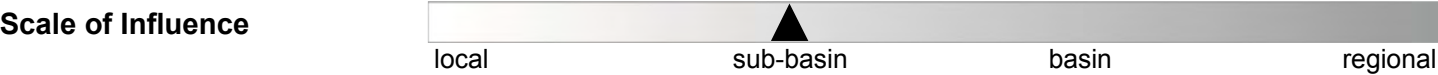
Project ID: 002.MC.05d



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Creation of approximately 2,960 acres of marsh in the Barataria Basin at Delta Ponds (through sediment dredging of the Mississippi River and offshore sites and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4526 ac	4529 ac
Long Term (Year 50)	4529 ac	4521 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 68,890,000
	Estimated Cost Construction	\$ 835,257,000
	Operations & Maintenance (50 years)	\$ 9,400,000
	Total	\$ 913,547,000

Barataria Landbridge

Marsh Creation

Project ID: 002.MC.06



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

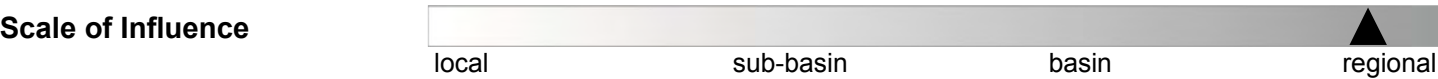
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 15,580 acres of marsh in the Barataria Landbridge between the Mississippi River and Bayou Grand Chenier (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

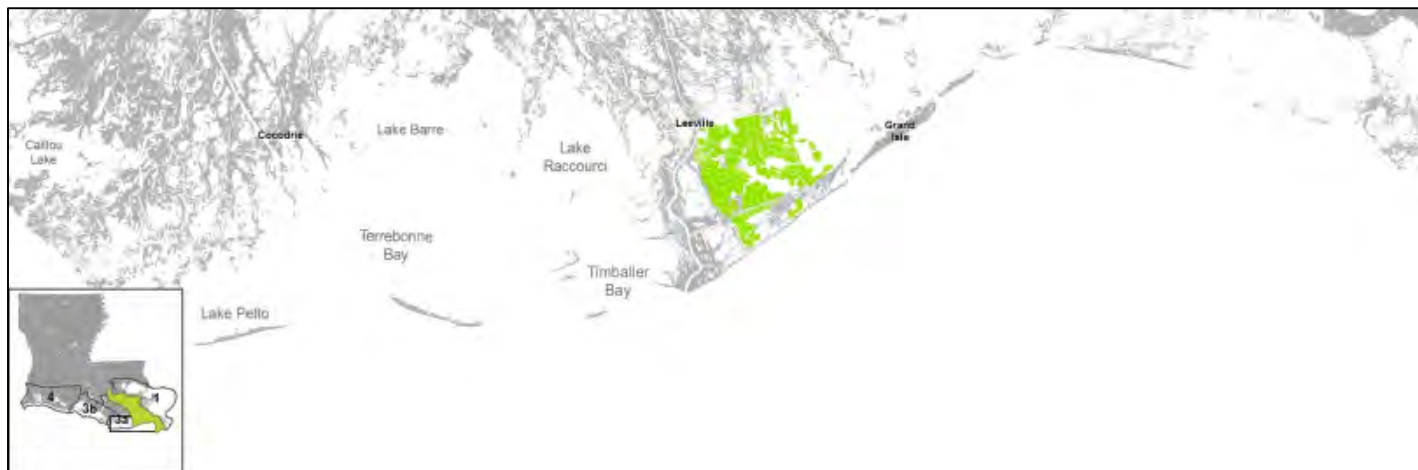


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	15784 ac	15475 ac
Long Term (Year 50)	15644 ac	9406 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 111,990,000
Estimated Cost Construction		\$ 1,392,182,000
Operations & Maintenance (50 years)		\$ 49,740,000
Total		\$ 1,553,912,000

Project ID: 002.MC.08



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 16,730 acres of marsh from Caminada Headland to Leeville (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near Term (Year 20)	16908 ac	16896 ac
Long Term (Year 50)	16962 ac	172 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 134,500,000
Estimated Cost Construction		\$ 1,695,457,000
Operations & Maintenance (50 years)		\$ 53,360,000
Total		\$ 1,883,317,000

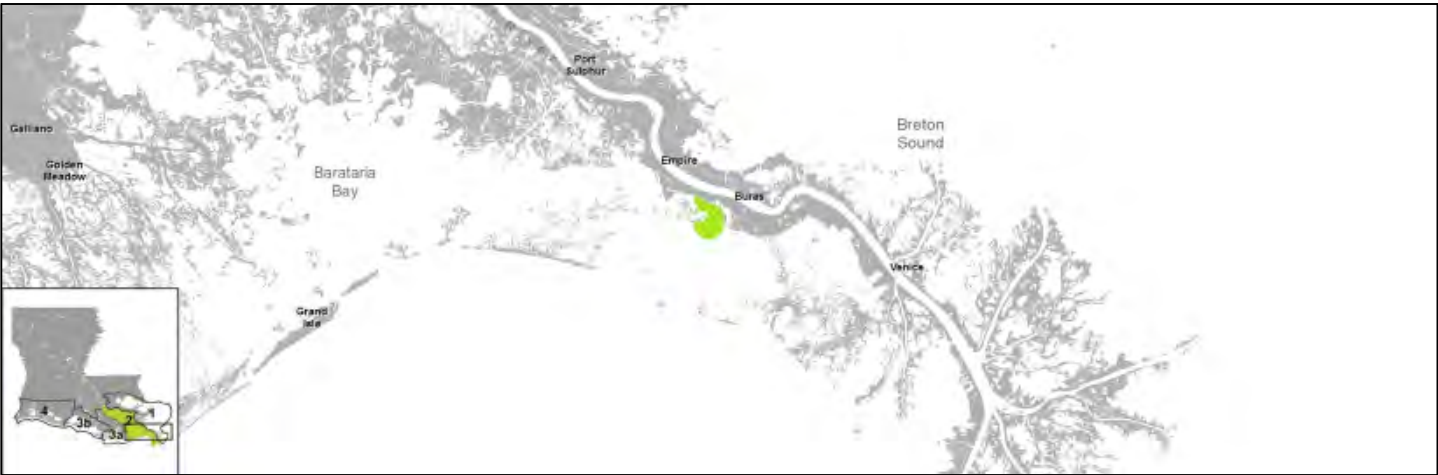
Bastian Bay/Buras

Marsh Creation

Project ID: 002.MC.09



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

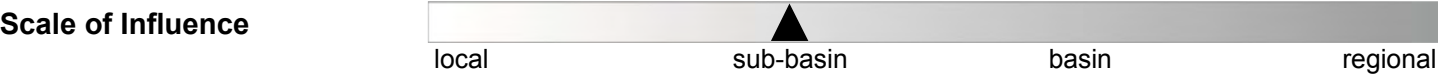
LCA Comprehensive Study

Project Status

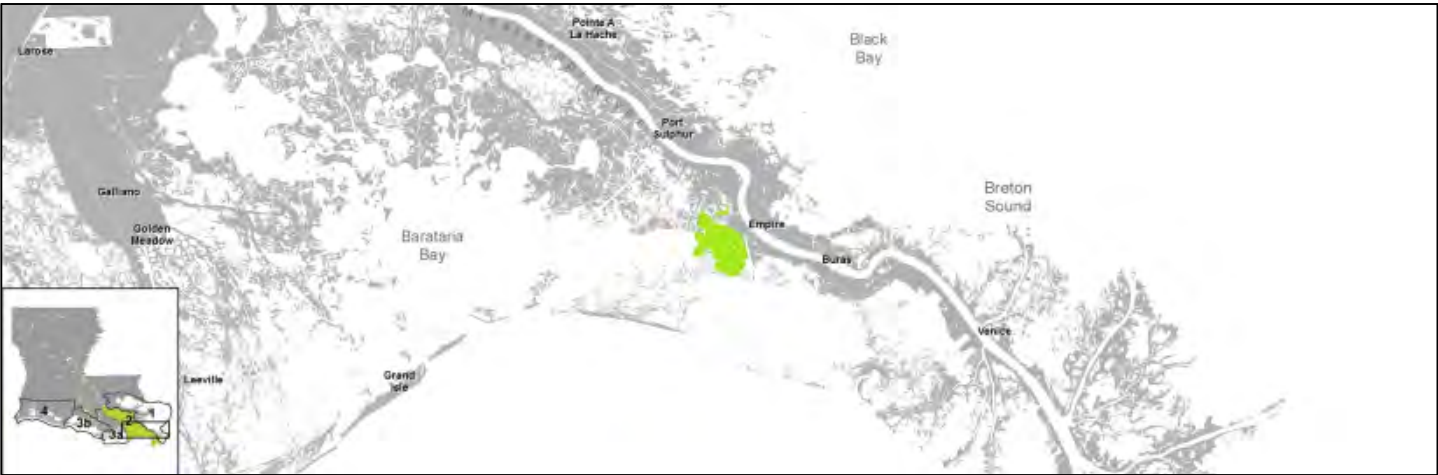
Conceptual Phase

Description

Creation of approximately 2,250 acres of marsh at Bastian Bay near Buras (through sediment dredging of the Mississippi River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1135 ac	1137 ac
Long Term (Year 50)	12 ac	10 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 19,880,000
Estimated Cost Construction		\$ 238,543,000
Operations & Maintenance (50 years)		\$ 7,580,000
Total		\$ 266,003,000



Project Source

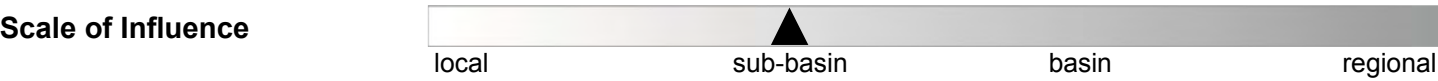
LCA Comprehensive Study

Project Status

Conceptual Phase

Description

Creation of approximately 5,740 acres of marsh near Empire (through sediment dredging of the Mississippi River and placement at an elevation of 2.5 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

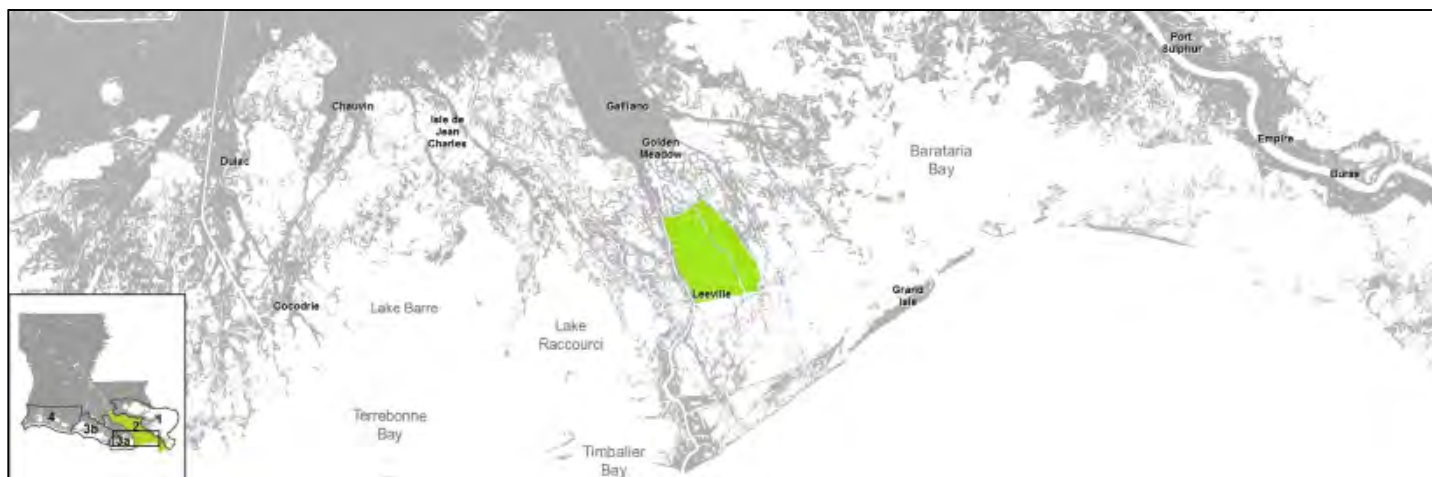


Land Area		Moderate	Less Optimistic
	NearTerm (Year 20)	5774 ac	5768 ac
	Long Term (Year 50)	5775 ac	-28 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 47,580,000
	Estimated Cost Construction		\$ 570,950,000
	Operations & Maintenance (50 years)		\$ 18,630,000
	Total		\$ 637,160,000

Project ID: 002.MC.12



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 10,590 acres along Highway 1 east of Leeville (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near Term (Year 20)	10846 ac	10864 ac
Long Term (Year 50)	11005 ac	269 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 249,840,000
Estimated Cost Construction		\$ 3,421,090,000
Operations & Maintenance (50 years)		\$ 34,800,000
Total		\$ 3,705,730,000

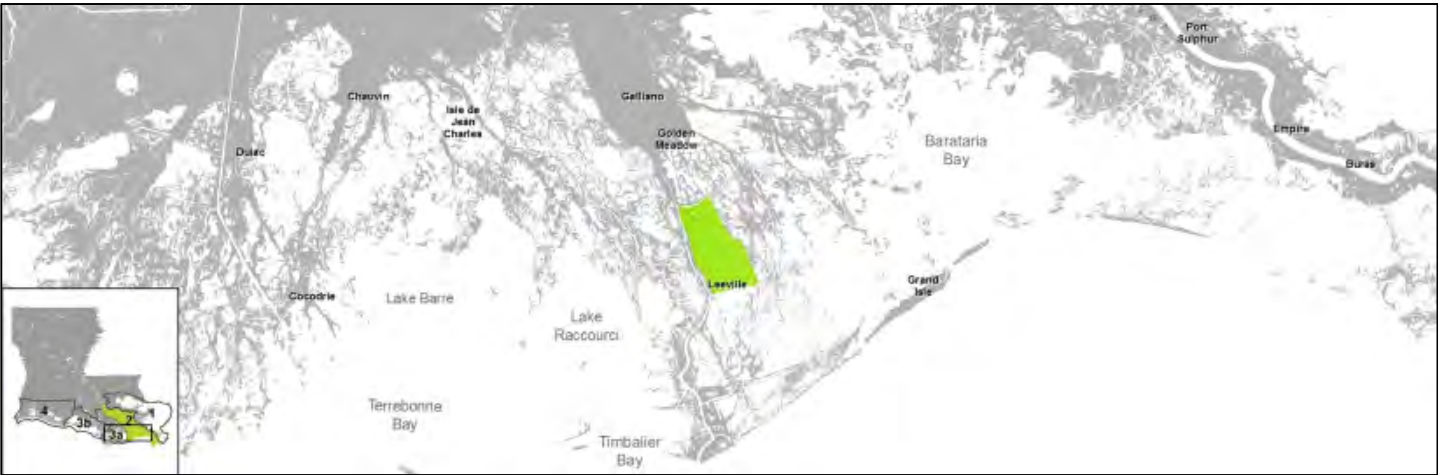
Leeville Area- Component A

Marsh Creation

Project ID: 002.MC.12a



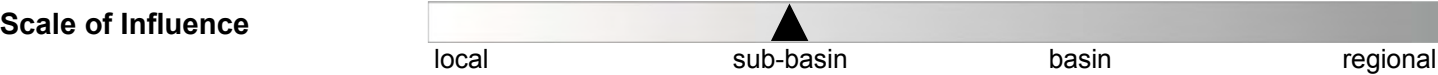
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 7,380 acres along Highway 1 east of Leeville (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (western component of 002.MC.12).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	7324 ac	7326 ac
Long Term (Year 50)	7382 ac	-21 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 179,190,000
Estimated Cost Construction		\$ 2,326,341,000
Operations & Maintenance (50 years)		\$ 23,670,000
Total		\$ 2,529,201,000

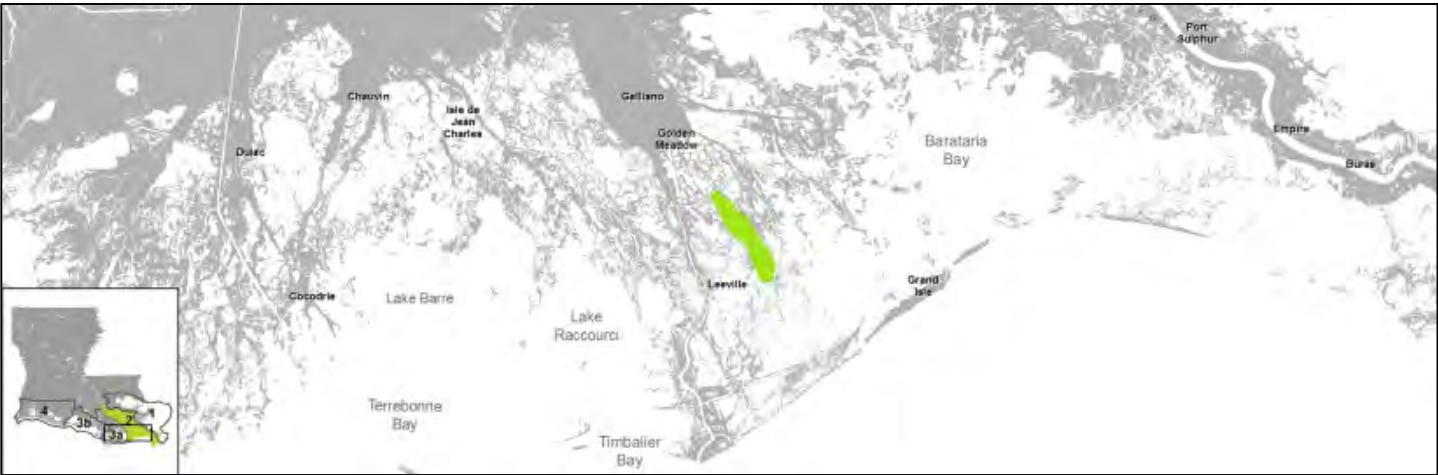
Leeville Area- Component B

Marsh Creation

Project ID: 002.MC.12b

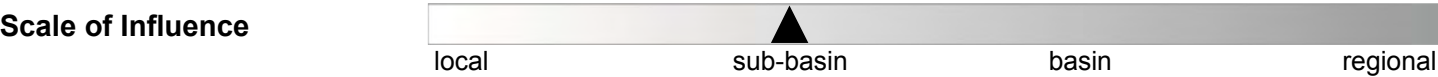


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description	Creation of approximately 3,480 acres of marsh along Highway 1 east of Leeville (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (eastern component of 002.MC.12).
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	2897 ac	2900 ac
Long Term (Year 50)	2931 ac	-27 ac

Project Cost Estimate	Planning/Engineering & Design	\$89,250,000
	Estimated Cost Construction	\$1,094,749,000
	Operations & Maintenance (50 years)	\$11,140,000
	Total	\$1,195,139,000

Project ID: 001.OR.01



Planning Unit 4



Project Status Conceptual Phase

Description	Creation of approximately 240,000 feet of oyster barrier reef along the eastern shore of Biloxi Marsh to provide oyster habitat, reduce wave erosion, and prevent further marsh degradation.
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local sub-basin basin regional

Less Optimistic

-114 ac

226 ac

\$ 12,240,000

\$ 152,941,000

\$ 12,240,000

\$ 177,421,000

Bayou Grand Cheniere
Ridge Restoration
Project ID: 002.RC.03



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Plaquemines Parish Master Plan
Project Status	Conceptual Phase

Description	Restoration of approximately 100,000 feet (230 acres) of historic ridge along Bayou Grand Cheniere (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	64 ac	79 ac
Long Term (Year 50)	81 ac	130 ac

Project Cost Estimate	Planning/Engineering & Design	\$4,170,000
	Estimated Cost Construction	\$52,123,000
	Operations & Maintenance (50 years)	\$14,420,000
	Total	\$70,713,000

Maurepas Landbridge

Shoreline Protection

Project ID: 001.SP.02



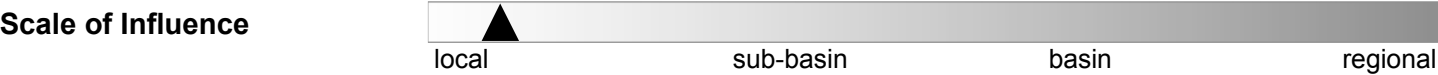
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Shoreline protection through rock breakwaters of approximately 75,000 feet of shoreline on the east and west sides of the Maurepas Landbridge through rock breakwaters to preserve shoreline integrity and reduce wetland degradation from wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	36 ac	36 ac
Long Term (Year 50)	35 ac	37 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 4,210,000
	Estimated Cost Construction	\$ 52,651,000
	Operations & Maintenance (50 years)	\$ 42,880,000
	Total	\$ 99,741,000

GIWW (Bayou Lafourche to Bayou Perot)

Shoreline Protection

Project ID: 002.SP.01

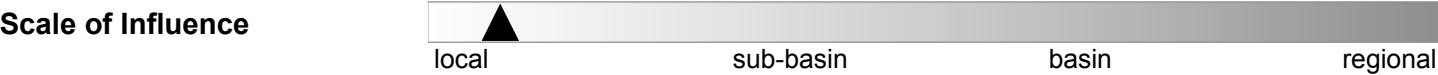


- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description Shoreline protection through rock breakwaters of approximately 140,000 feet of GIWW bankline between Bayou Lafourche and Bayou Perot to preserve shoreline integrity and reduce wetland degradation from wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	207 ac	213 ac
Long Term (Year 50)	198 ac	223 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 7,760,000
Estimated Cost Construction		\$ 96,996,000
Operations & Maintenance (50 years)		\$ 79,740,000
Total		\$ 184,496,000

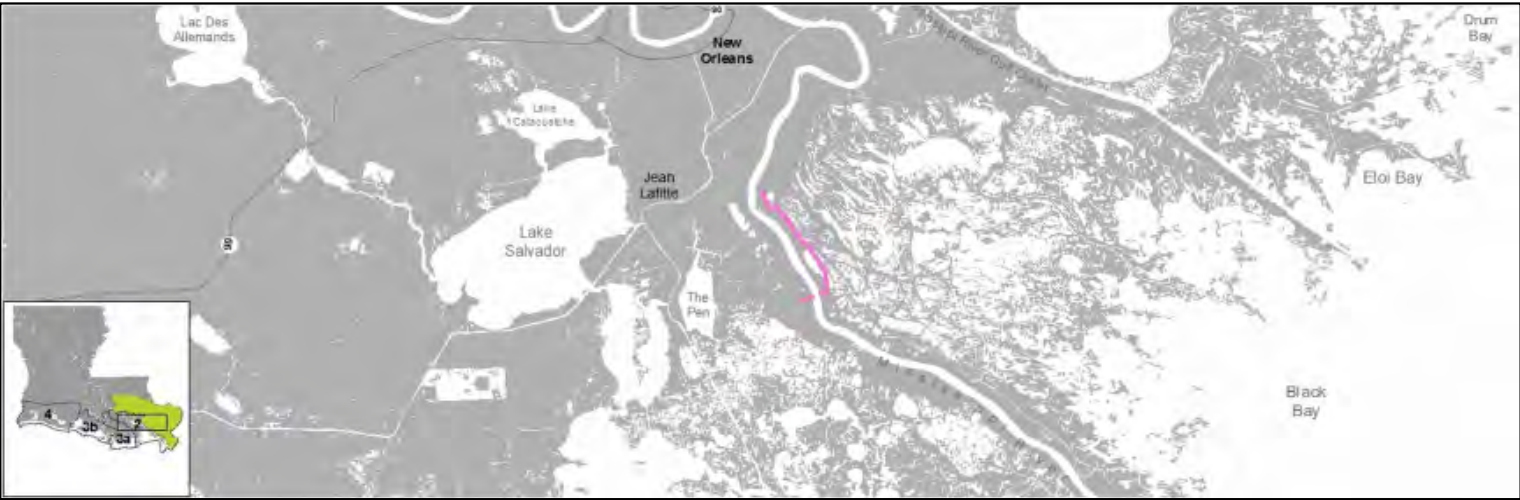
Alliance Area Levee- East Bank

Structural Protection

Project ID: 001.HP.01



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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Project Source	LACPR
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 33.0 feet NAVD88 along the east bank of the Mississippi River across from the Alliance Refinery with tie-in on the west bank to the existing protection system for hurricane storm surge reduction. Project features include approximately 50,000 feet of earthen levee.
Scale of Influence	<div><div></div><div>local</div><div>sub-basin</div><div>basin</div><div>regional</div></div>

Project Cost Estimate:	Planning / Engineering & Design	\$	41,000,000
	Estimated Cost Construction	\$	431,000,000
	Operations & Maintenance (50 Years)	\$	34,200,000
	Total	\$	506,200,000

Alliance Area Levee- East Bank

Structural Protection

Project ID: 001.HP.01



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project does not provide risk reduction compared to FWOA to Plaquemines Parish for any storm surge event under either scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Plaquemines Parish	\$5,445M	\$5,571M	\$5,848M	\$5,849M	\$6,461M	\$6,467M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Plaquemines Parish	\$5,690M	\$5,691M	\$6,228M	\$6,230M	\$6,467M	\$6,509M

Caernarvon to White Ditch

Structural Protection

Project ID: 001.HP.02



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	2007 State Master Plan
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 31.5 feet NAVD88 along the east bank of the Mississippi River from Caernarvon to White Ditch for hurricane storm surge risk reduction. Project features include approximately 183,000 feet of earthen levee and 13 pumps with a combined capacity of 7,300 cfs.



Project Cost Estimate:	Planning / Engineering & Design	\$	134,600,000
	Estimated Cost Construction	\$	1,485,000,000
	Operations & Maintenance (50 Years)	\$	125,000,000
	Total	\$	1,744,600,000

Caernarvon to White Ditch

Structural Protection

Project ID: 001.HP.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Plaquemines Parish for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels in Saint Bernard Parish, Poydras/Violet, Chalmette, and New Orleans under both scenarios. Model results also indicate the project could lead to elevated water levels in New Orleans East under the less optimistic scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Chalmette	\$0M	\$19,852M	\$0M	\$20,016M	\$19,775M	\$20,245M
New Orleans East	\$9M	\$9M	\$9M	\$9M	\$13M	\$13M
New Orleans	\$400M	\$3,038M	\$403M	\$3,063M	\$211,452M	\$211,505M
Plaquemines Parish	\$5,445M	\$5,132M	\$5,848M	\$5,379M	\$6,461M	\$6,061M
Poydras/Violet	\$0M	\$3,291M	\$0M	\$3,335M	\$3,265M	\$3,383M
Saint Bernard Parish	\$172M	\$837M	\$175M	\$919M	\$957M	\$986M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Chalmette	\$0M	\$19,797M	\$0M	\$19,956M	\$19,362M	\$20,097M
New Orleans East	\$13M	\$13M	\$104M	\$38,336M	\$39,057M	\$39,058M
New Orleans	\$197,393M	\$200,025M	\$204,071M	\$206,724M	\$214,380M	\$214,449M
Plaquemines Parish	\$5,690M	\$5,229M	\$6,228M	\$5,757M	\$6,467M	\$6,059M
Poydras/Violet	\$0M	\$3,281M	\$0M	\$3,319M	\$3,186M	\$3,354M
Saint Bernard Parish	\$174M	\$836M	\$229M	\$959M	\$947M	\$987M

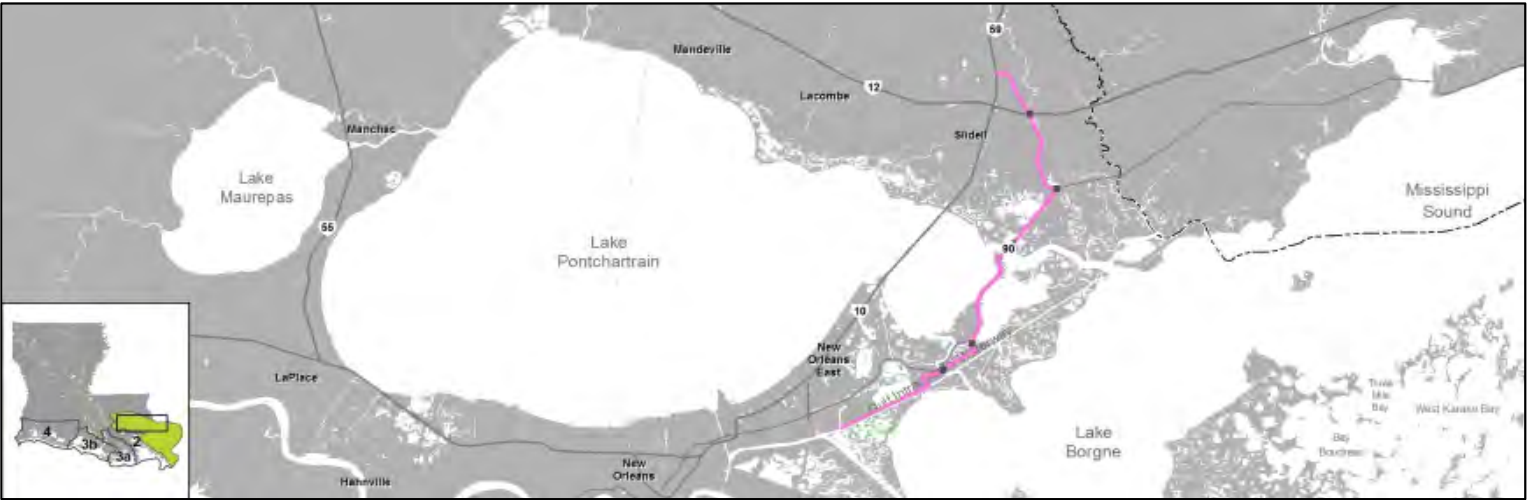
Lake Pontchartrain Barrier (High)

Structural Protection

Project ID: 001.HP.07



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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Project Source	LACPR
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 33.0 feet NAVD88 across the mouth of Lake Pontchartrain from the New Orleans Landbridge to Interstate 59 north of Slidell for hurricane storm surge risk reduction. Project features include approximately 150,000 feet of earthen levee, 11,000 feet of concrete T-wall, three 40-foot roller gates, and three 220-foot barge gates.



Project Cost Estimate:	Planning / Engineering & Design	\$	120,250,000
	Estimated Cost Construction	\$	1,315,000,000
	Operations & Maintenance (50 Years)	\$	139,150,000
	Total	\$	1,574,400,000

Lake Pontchartrain Barrier (High)

Structural Protection

Project ID: 001.HP.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels for several south shore communities for the 500 year storm surge event under both scenarios. Additionally, the project could produce elevated water levels in the State of Mississippi (which was not included in this analysis). The effects of a Pontchartrain Barrier alignment will be studied further in project 001.HP.08p.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Destrehan	\$0M	\$0M	\$0M	\$0M	\$8,921M	\$9,760M
Lacombe	\$788M	\$11M	\$1,318M	\$12M	\$1,923M	\$130M
LaPlace	\$8,779M	\$20M	\$9,981M	\$66M	\$11,064M	\$187M
Livingston Parish	\$1,926M	\$434M	\$2,261M	\$576M	\$2,609M	\$988M
Mandeville	\$5,448M	\$82M	\$8,781M	\$206M	\$15,056M	\$897M
Metairie/Kenner	\$98M	\$90M	\$115M	\$111M	\$210,157M	\$215,823M
New Orleans East	\$9M	\$8M	\$9M	\$8M	\$13M	\$39,071M
New Orleans	\$400M	\$345M	\$403M	\$377M	\$211,452M	\$221,216M
Orleans Parish	\$522M	\$187M	\$553M	\$334M	\$783M	\$1,491M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,265M	\$3,430M
St John the Baptist Parish	\$163M	\$134M	\$200M	\$153M	\$217M	\$170M
Slidell	\$14,926M	\$809M	\$24,913M	\$1,354M	\$47,083M	\$2,157M
Saint Charles Parish	\$2,288M	\$2,257M	\$2,794M	\$2,535M	\$3,341M	\$2,873M
Saint Rose	\$47M	\$22M	\$48M	\$30M	\$3,373M	\$4,523M
Saint Tammany Parish	\$1,849M	\$499M	\$2,518M	\$741M	\$4,411M	\$1,115M
Tangipahoa Parish	\$771M	\$187M	\$930M	\$226M	\$990M	\$288M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Destrehan	\$8,097M	\$0M	\$8,555M	\$0M	\$9,190M	\$9,765M
Lacombe	\$1,047M	\$11M	\$1,502M	\$15M	\$2,553M	\$186M
LaPlace	\$10,248M	\$57M	\$13,388M	\$120M	\$17,970M	\$322M
Livingston Parish	\$2,261M	\$604M	\$2,499M	\$740M	\$2,693M	\$1,219M
Mandeville	\$7,936M	\$121M	\$11,591M	\$231M	\$17,843M	\$1,150M
Metairie/Kenner	\$204,747M	\$248M	\$207,592M	\$266M	\$212,388M	\$215,919M
New Orleans East	\$13M	\$8M	\$104M	\$9M	\$39,057M	\$39,072M
New Orleans	\$197,393M	\$386M	\$204,071M	\$389M	\$214,380M	\$221,297M
Orleans Parish	\$545M	\$321M	\$663M	\$425M	\$1,819M	\$1,507M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,186M	\$3,431M
St John the Baptist Parish	\$211M	\$161M	\$222M	\$175M	\$233M	\$188M
Slidell	\$19,289M	\$1,066M	\$31,980M	\$1,565M	\$51,115M	\$4,282M
Saint Charles Parish	\$3,265M	\$3,117M	\$3,607M	\$3,189M	\$4,138M	\$3,651M
Saint Rose	\$2,378M	\$121M	\$2,951M	\$135M	\$3,697M	\$4,530M
Saint Tammany Parish	\$2,221M	\$654M	\$3,478M	\$903M	\$4,806M	\$1,682M
Tangipahoa Parish	\$925M	\$239M	\$971M	\$280M	\$1,015M	\$345M

Lake Pontchartrain Barrier (Low)

Structural Protection

Project ID: 001.HP.08



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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Project Source	LACPR		
Project Status	Conceptual Phase		
Description	Construction of a levee to an elevation of 24.5 feet NAVD88 across the mouth of Lake Pontchartrain from the New Orleans Landbridge to Interstate 59 north of Slidell for hurricane storm surge risk reduction. Project features include approximately 150,000 feet of earthen levee, 11,000 feet of concrete T-wall, three 40-foot roller gates, and three 220-foot barge gates.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Project Cost Estimate:	Planning / Engineering & Design	\$	76,470,000
	Estimated Cost Construction	\$	815,000,000
	Operations & Maintenance (50 Years)	\$	139,150,000
	Total	\$	1,030,620,000

Lake Pontchartrain Barrier (Low)

Structural Protection

Project ID: 001.HP.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels for several south shore communities for the 500 year storm surge event under both scenarios. Additionally, the project could produce elevated water levels in the State of Mississippi (which was not included in this analysis). The effects of a Pontchartrain Barrier alignment will be studied further in project 001.HP.08p.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Destrehan	\$0M	\$0M	\$0M	\$0M	\$8,921M	\$9,745M
Lacombe	\$788M	\$11M	\$1,318M	\$12M	\$1,923M	\$130M
LaPlace	\$8,779M	\$20M	\$9,981M	\$66M	\$11,064M	\$185M
Livingston Parish	\$1,926M	\$433M	\$2,261M	\$564M	\$2,609M	\$961M
Mandeville	\$5,448M	\$82M	\$8,781M	\$206M	\$15,056M	\$894M
Metairie/Kenner	\$98M	\$89M	\$115M	\$109M	\$210,157M	\$215,685M
New Orleans East	\$9M	\$8M	\$9M	\$8M	\$13M	\$39,071M
New Orleans	\$400M	\$345M	\$403M	\$377M	\$211,452M	\$220,874M
Orleans Parish	\$522M	\$179M	\$553M	\$331M	\$783M	\$1,493M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,265M	\$3,427M
St John the Baptist Parish	\$163M	\$134M	\$200M	\$153M	\$217M	\$170M
Slidell	\$14,926M	\$808M	\$24,913M	\$1,351M	\$47,083M	\$2,111M
Saint Charles Parish	\$2,288M	\$2,257M	\$2,794M	\$2,535M	\$3,341M	\$2,873M
Saint Rose	\$47M	\$22M	\$48M	\$30M	\$3,373M	\$4,487M
Saint Tammany Parish	\$1,849M	\$499M	\$2,518M	\$740M	\$4,411M	\$1,094M
Tangipahoa Parish	\$771M	\$187M	\$930M	\$226M	\$990M	\$288M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Destrehan	\$8,097M	\$0M	\$8,555M	\$0M	\$9,190M	\$9,766M
Lacombe	\$1,047M	\$11M	\$1,502M	\$19M	\$2,553M	\$213M
LaPlace	\$10,248M	\$65M	\$13,388M	\$130M	\$17,970M	\$5,845M
Livingston Parish	\$2,261M	\$605M	\$2,499M	\$741M	\$2,693M	\$1,229M
Mandeville	\$7,936M	\$122M	\$11,591M	\$250M	\$17,843M	\$1,135M
Metairie/Kenner	\$204,747M	\$95M	\$207,592M	\$114M	\$212,388M	\$215,931M
New Orleans East	\$13M	\$8M	\$104M	\$9M	\$39,057M	\$39,072M
New Orleans	\$197,393M	\$386M	\$204,071M	\$389M	\$214,380M	\$221,299M
Orleans Parish	\$545M	\$331M	\$663M	\$424M	\$1,819M	\$1,509M
Poydras/Violet	\$0M	\$0M	\$0M	\$0M	\$3,186M	\$3,431M
St John the Baptist Parish	\$211M	\$162M	\$222M	\$175M	\$233M	\$188M
Slidell	\$19,289M	\$1,068M	\$31,980M	\$1,599M	\$51,115M	\$4,974M
Saint Charles Parish	\$3,265M	\$3,117M	\$3,607M	\$3,189M	\$4,138M	\$3,651M
Saint Rose	\$2,378M	\$30M	\$2,951M	\$44M	\$3,697M	\$4,531M
Saint Tammany Parish	\$2,221M	\$654M	\$3,478M	\$903M	\$4,806M	\$1,707M
Tangipahoa Parish	\$925M	\$239M	\$971M	\$281M	\$1,015M	\$345M

Oakville to Myrtle Grove

Structural Protection

Project ID: 002.HP.01



- Planning Unit 1
- Planning Unit 2**
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	2007 State Master Plan		
Project Status	Conceptual Phase		
Description	Construction of a levee to an elevation of 9.5 feet NAVD88 on the west bank of the Mississippi River from Oakville to Myrtle Grove for hurricane storm surge risk reduction. Project features include approximately 114,000 feet of earthen levee and 15 pumps with a combined capacity of 8,500 cfs.		



Project Cost Estimate:	Planning / Engineering & Design	\$	29,400,000
	Estimated Cost Construction	\$	309,000,000
	Operations & Maintenance (50 Years)	\$	77,550,000
	Total	\$	415,950,000

Oakville to Myrtle Grove

Structural Protection

Project ID: 002.HP.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Plaquemines Parish for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels in all other communities listed below under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Jefferson Parish	\$1,799M	\$1,811M	\$2,259M	\$2,264M	\$2,572M	\$3,218M
Plaquemines Parish	\$5,445M	\$4,558M	\$5,848M	\$4,905M	\$6,461M	\$6,380M
Saint Charles Parish	\$2,288M	\$2,504M	\$2,794M	\$2,940M	\$3,341M	\$3,577M
Waggaman	\$0M	\$0M	\$0M	\$0M	\$1M	\$5,124M
West Bank - New Orleans	\$397M	\$398M	\$399M	\$402M	\$408M	\$51,132M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Jefferson Parish	\$2,875M	\$2,952M	\$3,211M	\$3,271M	\$3,927M	\$4,022M
Plaquemines Parish	\$5,690M	\$4,767M	\$6,228M	\$5,838M	\$6,467M	\$6,424M
Saint Charles Parish	\$3,265M	\$3,271M	\$3,607M	\$3,633M	\$4,138M	\$4,453M
Waggaman	\$4,870M	\$5,177M	\$5,238M	\$5,601M	\$5,888M	\$6,974M
West Bank - New Orleans	\$110,885M	\$111,606M	\$111,721M	\$112,252M	\$112,734M	\$115,966M

Project ID: 002.HP.04



Planning Unit 4



LACPR

Conceptual Phase

Construction of a levee to an elevation of 14-17 feet NAVD88 around the West Bank from Waggaman to Belle Chasse for hurricane storm surge risk reduction. Project features include approximately 141,000 feet of earthen levee, 34,000 feet of concrete T-wall, two 56-foot sector gates, and one 220-foot barge gate.

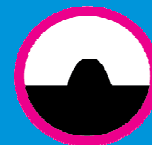
local sub-basin basin regional

Planning / Engineering & Design	\$	56,690,000
Estimated Cost Construction	\$	597,000,000
Operations & Maintenance (50 Years)	\$	129,150,000
Total	\$	782,840,000

West Bank High Level

Structural Protection

Project ID: 002.HP.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for all of the communities listed below except Luling under the less optimistic scenario. However, model results indicate the project could lead to elevated water levels in Jefferson Parish and Luling under the moderate scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Algiers	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Belle Chasse	\$1M	\$2M	\$2M	\$2M	\$2M	\$2M
Jefferson Parish	\$1,799M	\$1,801M	\$2,259M	\$2,261M	\$2,572M	\$2,575M
Luling	\$6,497M	\$6,513M	\$6,679M	\$6,704M	\$6,857M	\$6,871M
Waggaman	\$0M	\$0M	\$0M	\$0M	\$1M	\$0M
West Bank - New Orleans	\$397M	397M	\$399M	\$400M	\$408M	\$408M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Algiers	\$32,478M	\$842M	\$33,060M	\$845M	\$33,931M	\$850M
Belle Chasse	\$8,259M	\$111M	\$8,401M	\$117M	\$8,597M	\$155M
Jefferson Parish	\$2,875M	\$2,257M	\$3,211M	\$2,498M	\$3,927M	\$3,104M
Luling	\$6,802M	\$7,389M	\$7,054M	\$8,152M	\$8,042M	\$8,736M
Waggaman	\$4,870M	\$0M	\$5,238M	\$0M	\$5,888M	\$1M
West Bank - New Orleans	\$110,885M	\$402M	\$111,721M	\$406M	\$112,734M	\$415M

Project ID: 002.HP.06



Planning Unit 4



Description	Construction of a levee to an elevation of 15.5 feet NAVD88 between the West Bank and Larose along Highway 90 for hurricane storm surge risk reduction. Project features include approximately 264,000 feet of earthen levee, 2,400 feet of concrete T-wall, and one 220-foot barge gate.
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local sub-basin basin regional

Project Cost Estimate:	Planning / Engineering & Design	\$	68,790,000
	Estimated Cost Construction	\$	730,000,000
	Operations & Maintenance (50 Years)	\$	189,850,000
	Total	\$	988,640,000

Donaldsonville to the Gulf

Structural Protection

Project ID: 002.HP.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for most of the communities listed below under both scenarios. However, model results indicate the project could lead to elevated water levels in the communities of Jefferson Parish, Waggaman, and West Bank - New Orleans for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Jefferson Parish	\$1,799M	\$1,806M	\$2,259M	\$2,261M	\$2,572M	\$3,317M
Lafourche Parish	\$4,420M	\$3,801M	\$5,343M	\$4,782M	\$5,949M	\$5,568M
Luling	\$6,497M	\$4,728M	\$6,679M	\$4,858M	\$6,857M	\$4,929M
Raceland	\$3,152M	\$2,883M	\$3,995M	\$3,523M	\$4,848M	\$4,506M
St John the Baptist Parish	\$163M	\$124M	\$200M	\$195M	\$217M	\$215M
Saint Charles Parish	\$2,288M	\$1,327M	\$2,794M	\$1,632M	\$3,341M	\$2,157M
Saint James Parish	\$49M	\$12M	\$69M	\$13M	\$72M	\$21M
South Vacherie	\$328M	\$3M	\$613M	\$31M	\$767M	\$161M
<i>Waggaman</i>	\$0M	\$0M	\$0M	\$0M	\$1M	\$5,304M
West Bank - New Orleans	\$397M	\$398M	\$399M	\$403M	\$408M	\$51,290M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Jefferson Parish	\$2,875M	\$3,027M	\$3,211M	\$3,329M	\$3,927M	\$3,982M
Lafourche Parish	\$6,152M	\$5,556M	\$6,561M	\$6,123M	\$6,932M	\$6,492M
Luling	\$6,802M	\$5,060M	\$7,054M	\$5,195M	\$8,042M	\$5,366M
Raceland	\$4,615M	\$4,051M	\$4,995M	\$4,610M	\$5,353M	\$5,160M
St John the Baptist Parish	\$211M	\$203M	\$222M	\$217M	\$233M	\$232M
Saint Charles Parish	\$3,265M	\$2,970M	\$3,607M	\$3,332M	\$4,138M	\$3,611M
Saint James Parish	\$72M	\$28M	\$73M	\$37M	\$74M	\$43M
South Vacherie	\$690M	\$206M	\$822M	\$433M	\$978M	\$661M
Waggaman	\$4,870M	\$5,554M	\$5,238M	\$5,918M	\$5,888M	\$6,394M
West Bank - New Orleans	\$110,885M	\$112,174M	\$111,721M	\$112,786M	\$112,734M	\$113,724M

Algiers

Nonstructural BFE + 1

Project ID: ALG.100.1



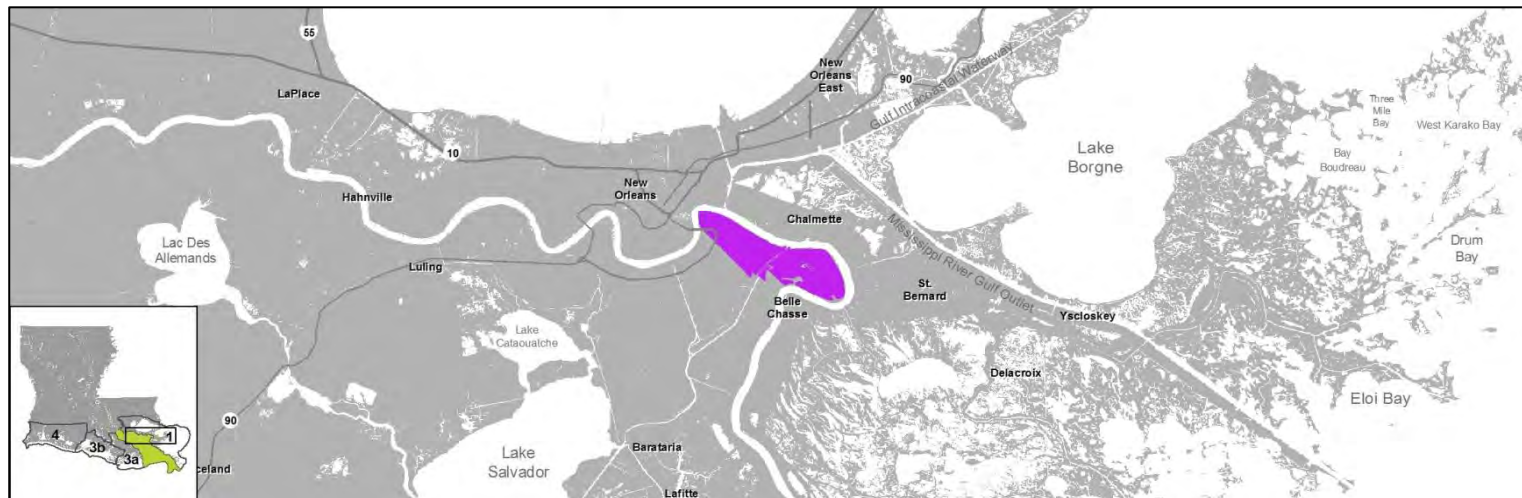
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Algiers.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$32478M	\$30961M
100 Year Event	\$0M	\$0M	\$33060M	\$31472M
500 Year Event	\$0M	\$0M	\$33931M	\$32290M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	4330	\$	582,536,000	
Residential Elevated	5130	\$	839,994,000	
Voluntary Residential Acquired	0	\$	-	
Total	9460	\$	1,422,530,000	

Algiers (High)

Nonstructural BFE + 4

Project ID: ALG.100.2



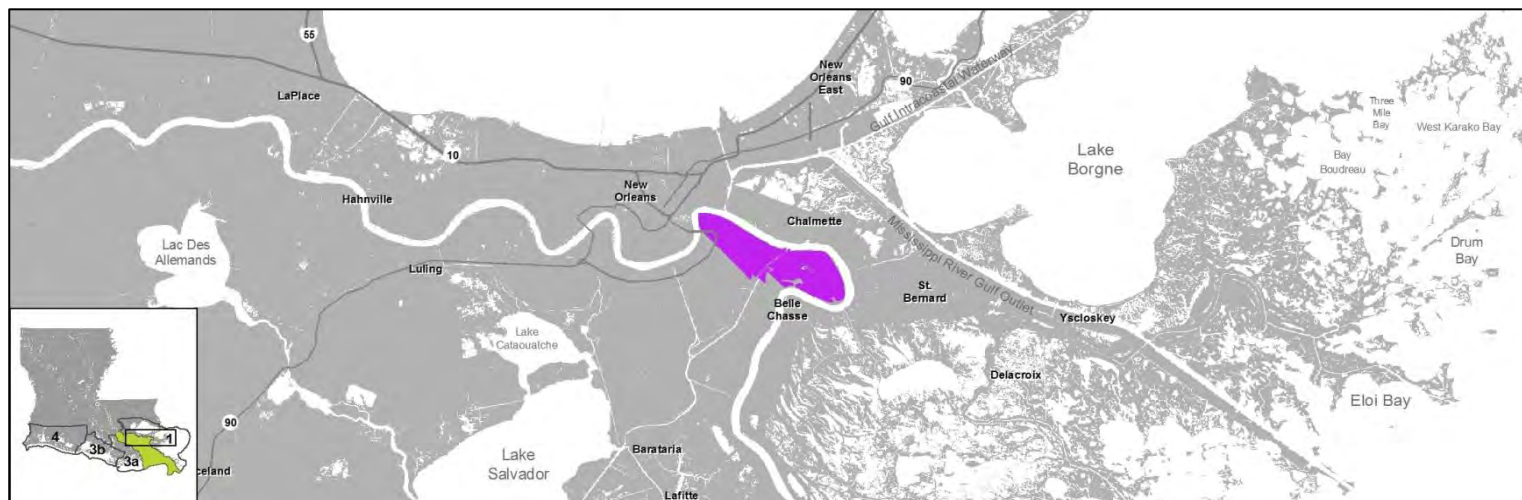
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Algiers.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

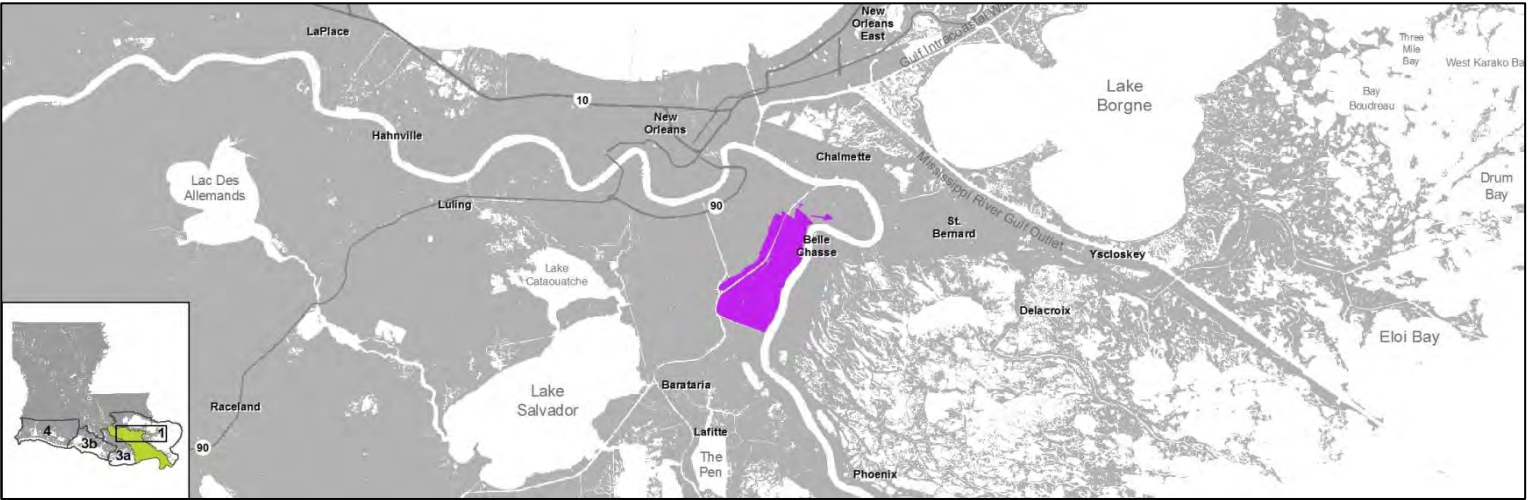
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$32478M	\$26880M
100 Year Event	\$0M	\$0M	\$33060M	\$27285M
500 Year Event	\$0M	\$0M	\$33931M	\$28005M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	680	\$	448,046,000
Residential Elevated	10040	\$	1,692,205,000
Voluntary Residential Acquired	0	\$	-
Total	10720	\$	2,140,251,000

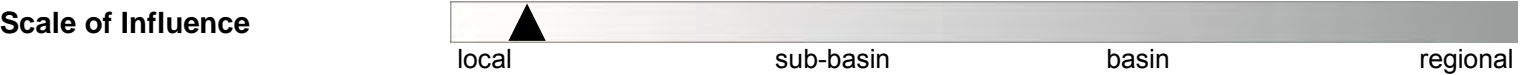


Project Source: Developed for the 2012 Coastal Master Plan

Project Status: Conceptual Phase

Description: Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Belle Chasse.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
	50 Year Event	\$1M	\$1M	\$8259M	\$7982M
	100 Year Event	\$2M	\$2M	\$8401M	\$8127M
	500 Year Event	\$2M	\$2M	\$8597M	\$8465M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	1550	\$	138,365,000
	Residential Elevated	190	\$	32,034,000
	Voluntary Residential Acquired	0	\$	-
	Total	1740	\$	170,399,000

Belle Chasse (High)

Nonstructural BFE + 4

Project ID: BCH.100.2



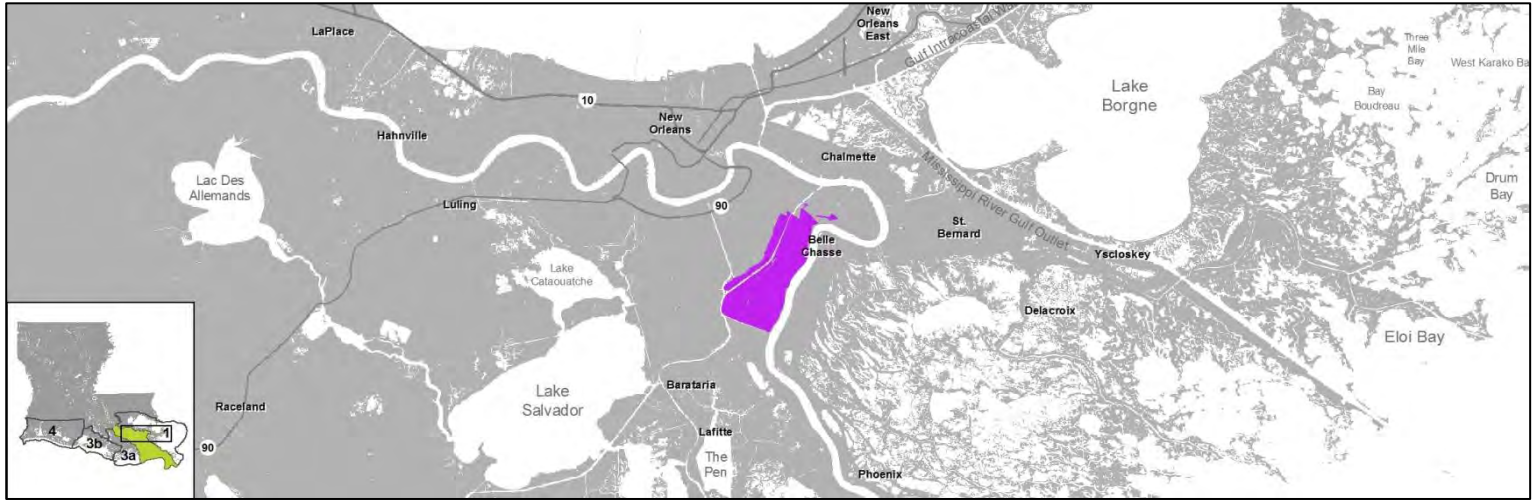
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Belle Chasse.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1M	\$1M	\$8259M	\$6760M
100 Year Event	\$2M	\$2M	\$8401M	\$7040M
500 Year Event	\$2M	\$2M	\$8597M	\$7540M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	160	\$	90,919,000	
Residential Elevated	2080	\$	345,683,000	
Voluntary Residential Acquired	0	\$	-	
Total	2240	\$	436,602,000	

Arabi/Chalmette/Meraux

Nonstructural BFE + 1

Project ID: CHA.100.1



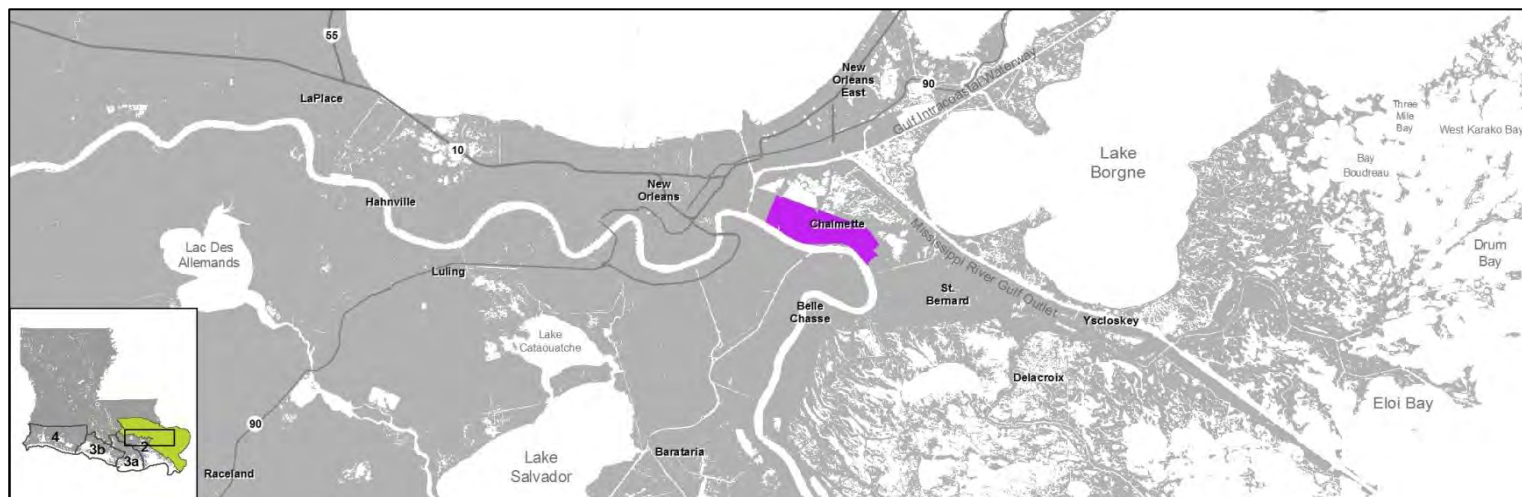
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Arabi, Chalmette, and Meraux.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$19775M	\$19136M	\$19362M	\$17622M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	1240	\$	168,603,000	
Residential Elevated	5540	\$	955,374,000	
Voluntary Residential Acquired	0	\$	-	
Total	6780	\$	1,123,977,000	

Arabi/Chalmette/Meraux (High)

Nonstructural BFE + 4

Project ID: CHA.100.2



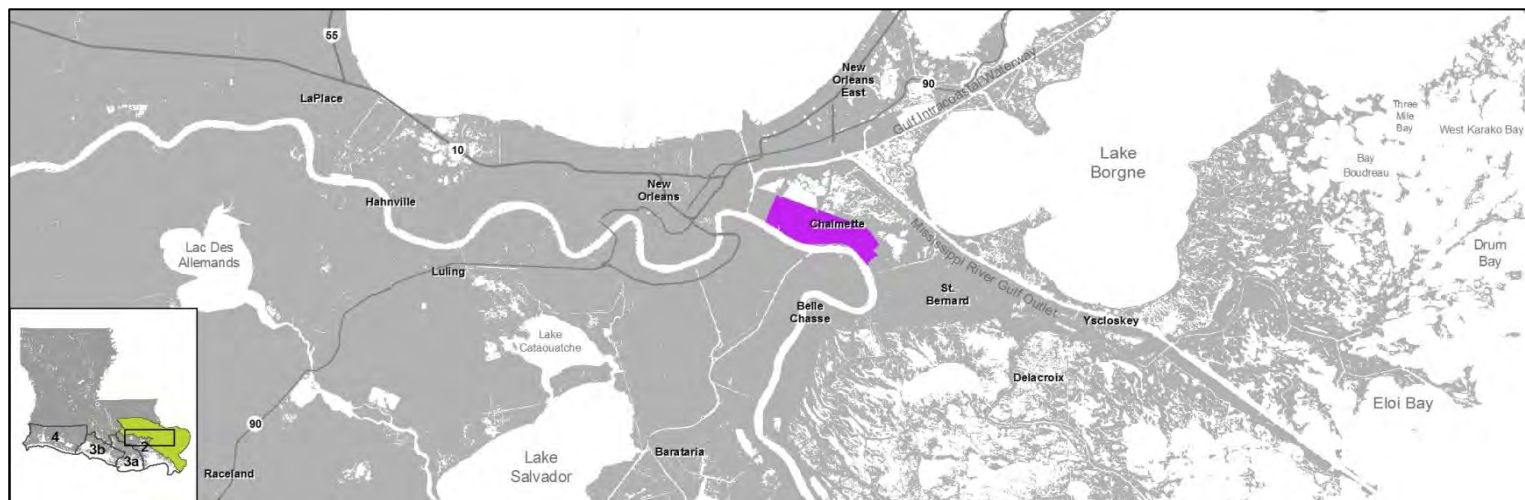
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Arabi, Chalmette, and Meraux.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$19775M	\$17546M	\$19362M	\$16508M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	250	\$	135,806,000	
Residential Elevated	6770	\$	1,189,434,000	
Voluntary Residential Acquired	0	\$	-	
Total	7020	\$	1,325,240,000	

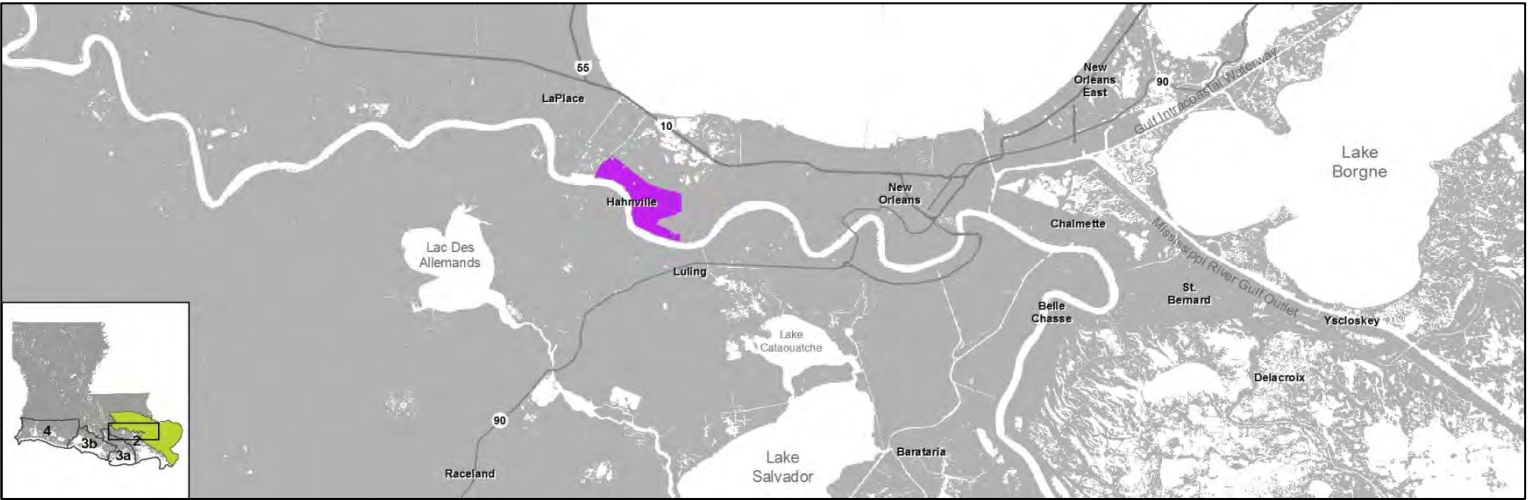
Destrehan/New Sarpy/Norco

Nonstructural BFE + 1

Project ID: DES.100.1



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

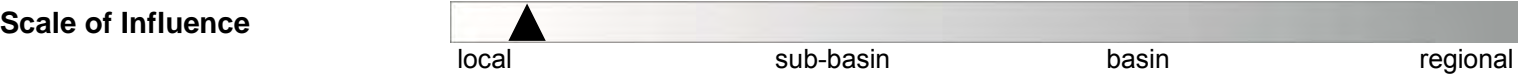
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Destrehan, New Sarpy, and Norco.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$0M	\$0M	\$8097M	\$7222M
100 Year Event	\$0M	\$0M	\$8555M	\$8211M
500 Year Event	\$8921M	\$8586M	\$9190M	\$8831M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	1850	\$	170,365,000
	Residential Elevated	1080	\$	174,092,000
	Voluntary Residential Acquired	0	\$	-
	Total	2930	\$	344,457,000

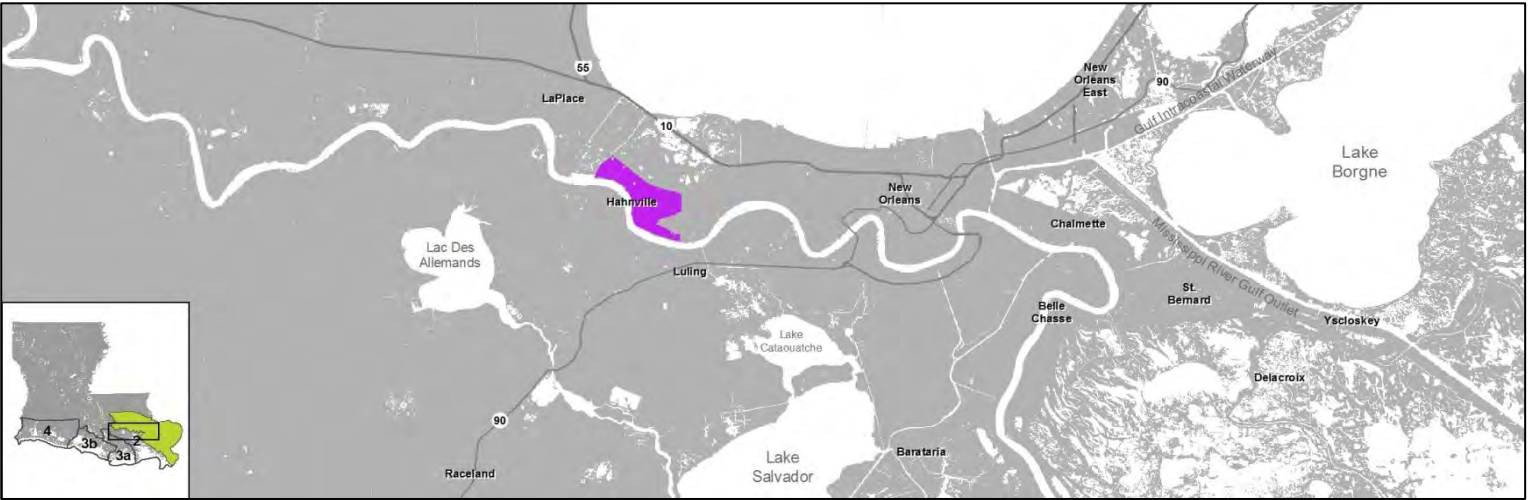
Destrehan/New Sarpy/Norco (High)

Nonstructural BFE + 4

Project ID: DES.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

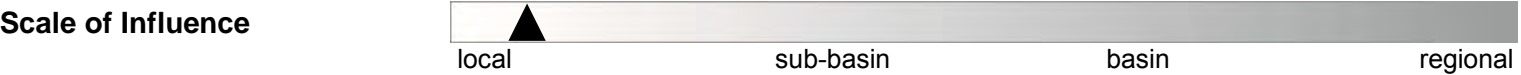


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Destrehan, New Sarpy, and Norco.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$0M	\$0M	\$8097M	\$6125M
100 Year Event	\$0M	\$0M	\$8555M	\$6547M
500 Year Event	\$8921M	\$6997M	\$9190M	\$7236M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*	Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	220	\$ 113,271,000
	Residential Elevated	3530	\$ 586,511,000
	Voluntary Residential Acquired	0	\$ -
	Total	3750	\$ 699,782,000

Jefferson Parish - Rural Areas

Nonstructural BFE + 1

Project ID: JEF.050.1



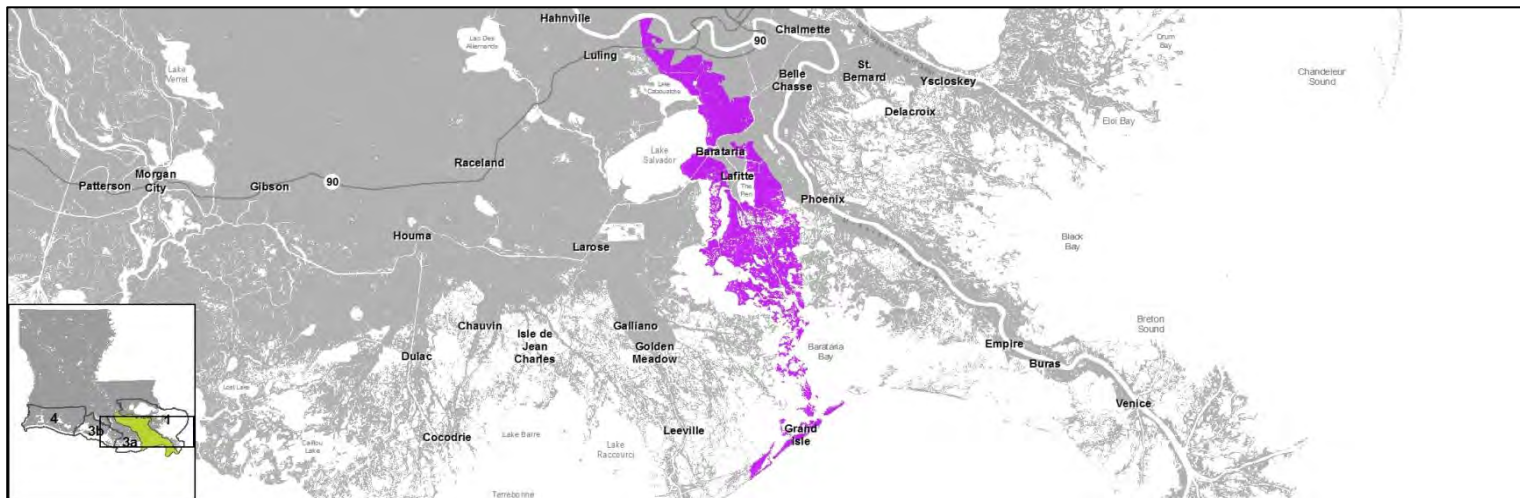
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Jefferson Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1799M	\$1482M	\$2875M	\$2545M
100 Year Event	\$2259M	\$1947M	\$3211M	\$2909M
500 Year Event	\$2572M	\$2368M	\$3927M	\$3795M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	270	\$	17,810,000	
Residential Elevated	1120	\$	183,128,000	
Voluntary Residential Acquired	0	\$	-	
Total	1390	\$	200,938,000	

Jefferson Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: JEF.050.2



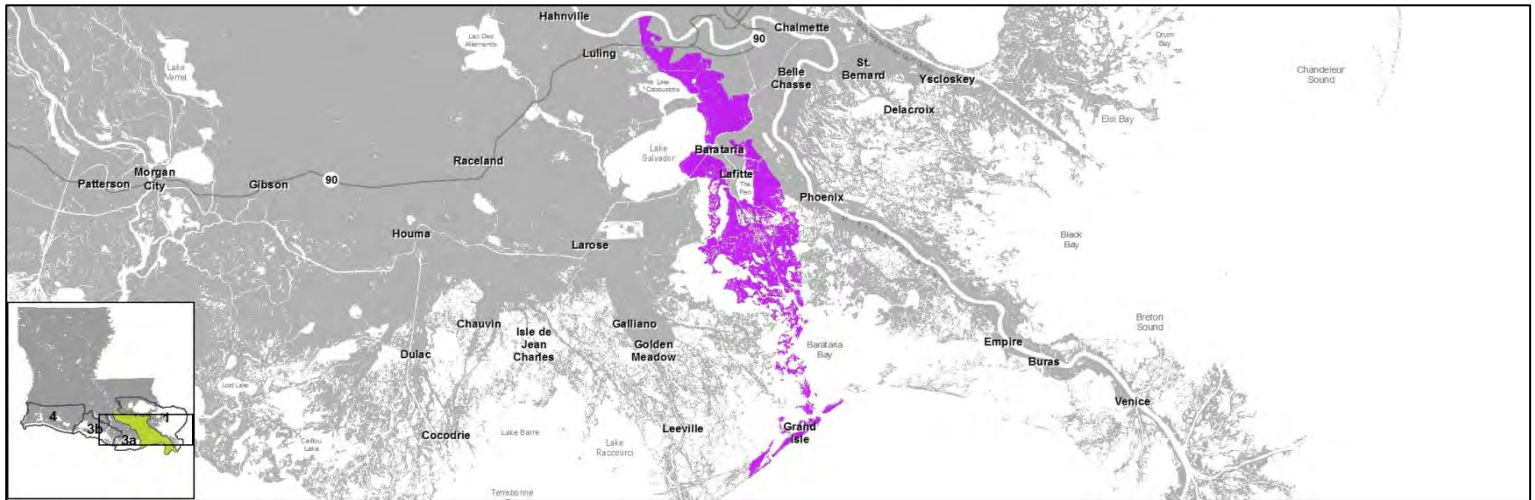
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Jefferson Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1799M	\$1430M	\$2875M	\$2367M
100 Year Event	\$2259M	\$1844M	\$3211M	\$2738M
500 Year Event	\$2572M	\$2233M	\$3927M	\$3574M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	20	\$	11,793,000	
Residential Elevated	1350	\$	230,939,000	
Voluntary Residential Acquired	0	\$	-	
Total	1370	\$	242,732,000	



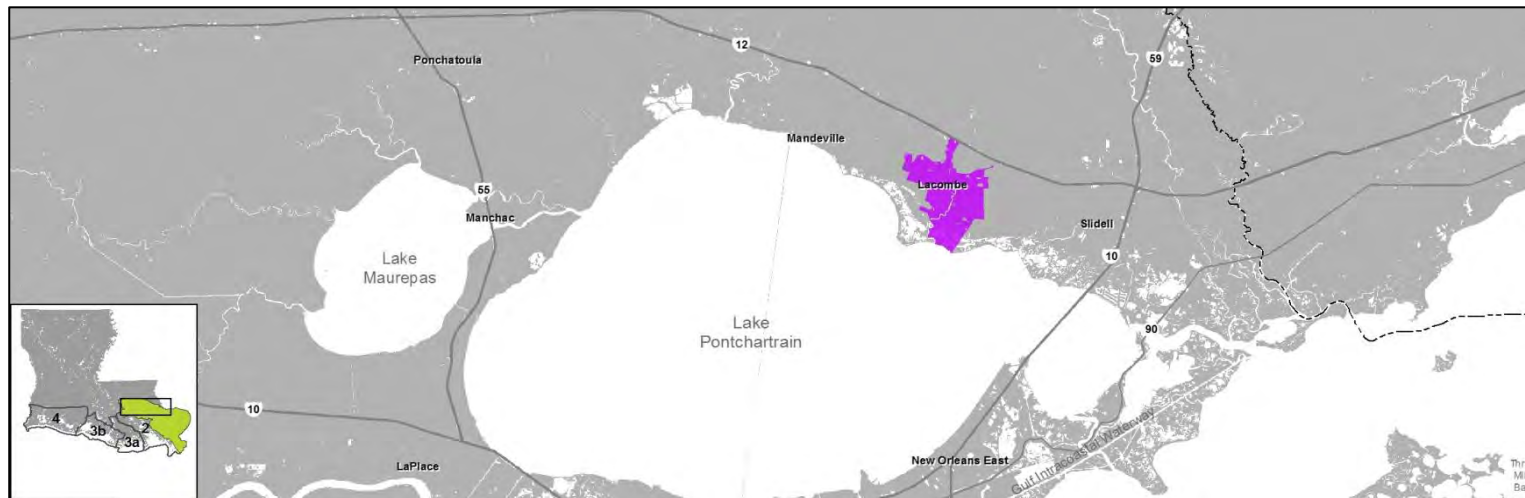
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Lacombe.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



**Estimated Damages
Risk Reduction**

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$788M	\$604M	\$1047M	\$877M
100 Year Event	\$1318M	\$1133M	\$1502M	\$1318M
500 Year Event	\$1923M	\$1744M	\$2553M	\$2385M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	210	\$	22,639,000
Residential Elevated	240	\$	39,579,000
Voluntary Residential Acquired	0	\$	-
Total	450	\$	62,218,000

Lacombe (High)

Nonstructural BFE + 4

Project ID: LAC.100.2



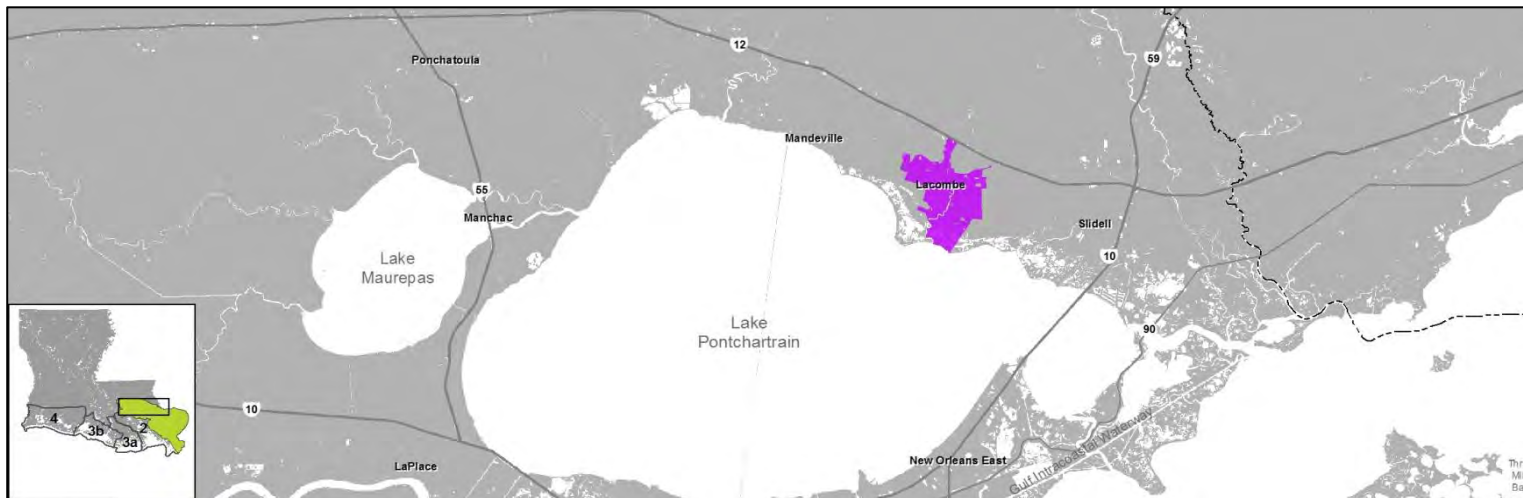
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Lacombe.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$788M	\$607M	\$1047M	\$856M
100 Year Event	\$1318M	\$1090M	\$1502M	\$1261M
500 Year Event	\$1923M	\$1741M	\$2553M	\$2297M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	20	\$	17,077,000
Residential Elevated	530	\$	88,964,000
Voluntary Residential Acquired	0	\$	-
Total	550	\$	106,041,000

Lafourche Parish - Rural Areas

Nonstructural BFE + 1

Project ID: LAF.050.1



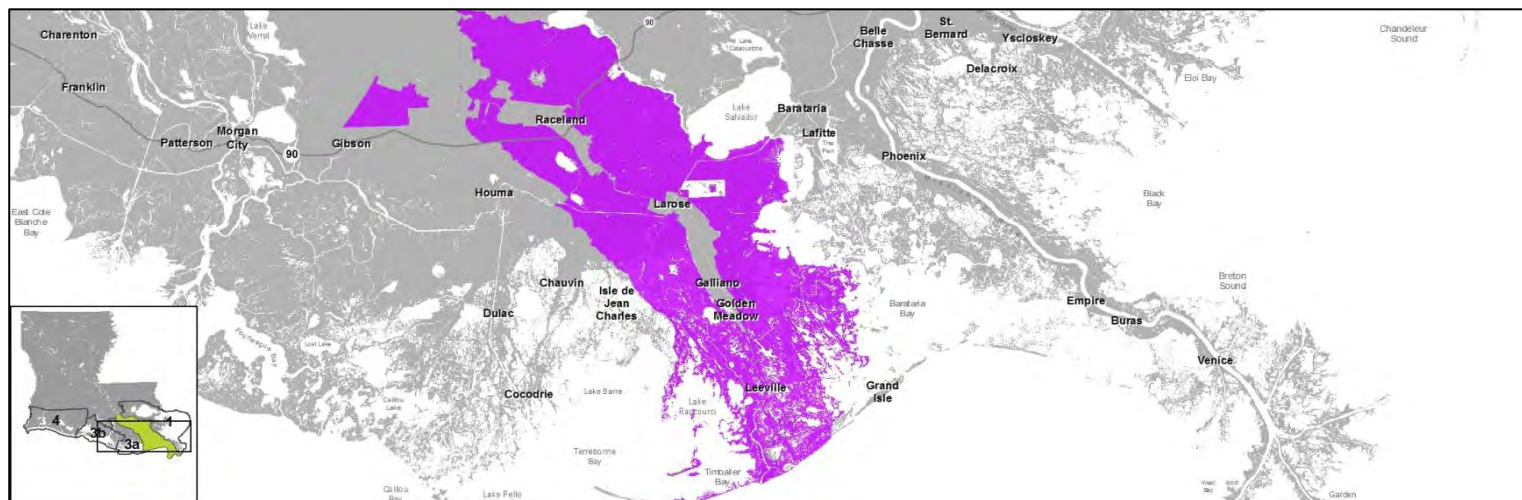
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Lafourche Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$4420M	\$3645M	\$6152M	\$5485M
100 Year Event	\$5343M	\$4637M	\$6561M	\$6019M
500 Year Event	\$5949M	\$5434M	\$6932M	\$6651M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	660	\$	58,572,000
Residential Elevated	1000	\$	164,629,000
Voluntary Residential Acquired	10	\$	32,000
Total	1670	\$	223,233,000

Lafourche Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: LAF.050.2



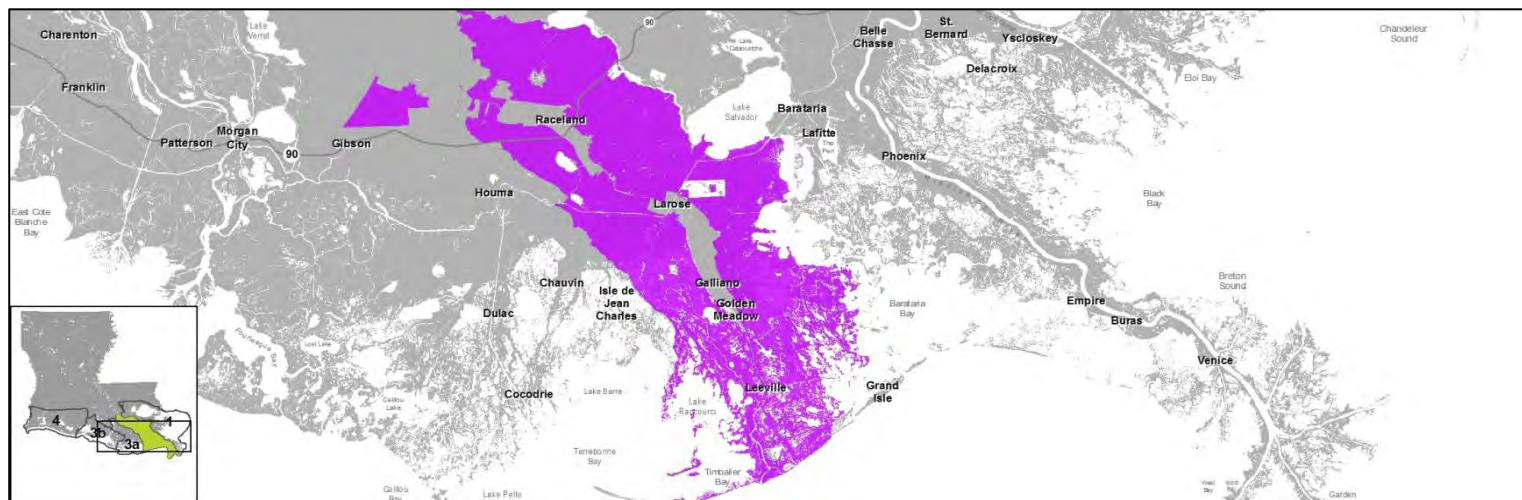
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Lafourche Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$4420M	\$3456M	\$6152M	\$5137M
100 Year Event	\$5343M	\$4369M	\$6561M	\$5679M
500 Year Event	\$5949M	\$5182M	\$6932M	\$6169M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	60	\$	42,320,000
Residential Elevated	1850	\$	302,572,000
Voluntary Residential Acquired	150	\$	31,755,000
Total	2060	\$	376,647,000

LaPlace/Reserve

Nonstructural BFE + 1

Project ID: LAP.100.1



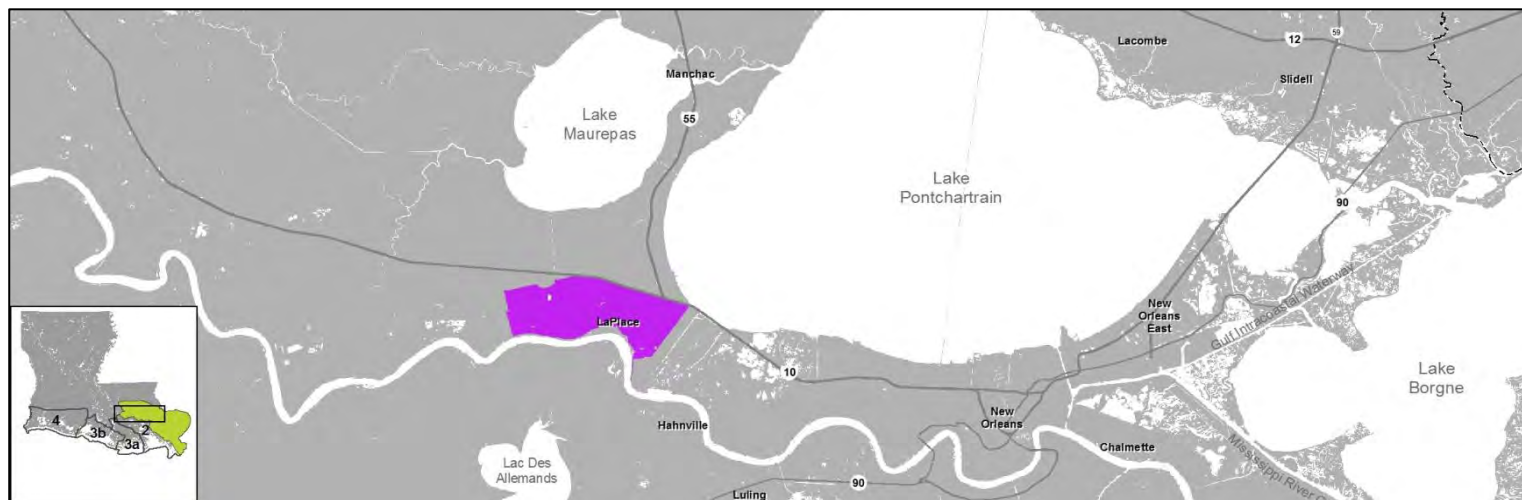
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of LaPlace and Reserve.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$8779M	\$7324M	\$10248M	\$9493M
100 Year Event	\$9981M	\$9332M	\$13388M	\$12664M
500 Year Event	\$11064M	\$10951M	\$17970M	\$17200M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	3240		\$	282,517,000
Residential Elevated	90		\$	14,605,000
Voluntary Residential Acquired	0		\$	-
Total	3330		\$	297,122,000

LaPlace/Reserve (High)

Nonstructural BFE + 4

Project ID: LAP.100.2



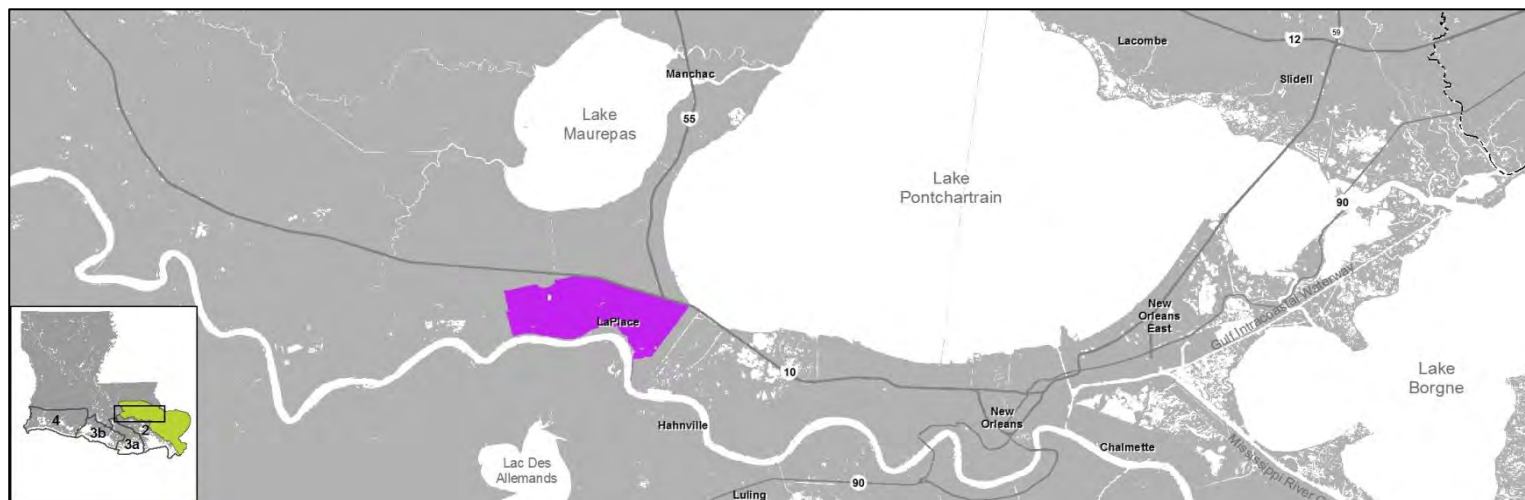
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of LaPlace and Reserve.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$8779M	\$6256M	\$10248M	\$8381M
100 Year Event	\$9981M	\$8113M	\$13388M	\$11200M
500 Year Event	\$11064M	\$9471M	\$17970M	\$15442M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	320	\$ 179,349,000
Residential Elevated	7210	\$ 1,154,212,000
Voluntary Residential Acquired	0	\$ -
Total	7530	\$ 1,333,561,000

Larose/Cut Off/Galliano/Golden Meadow

Nonstructural BFE + 1

Project ID: LAR.100.1



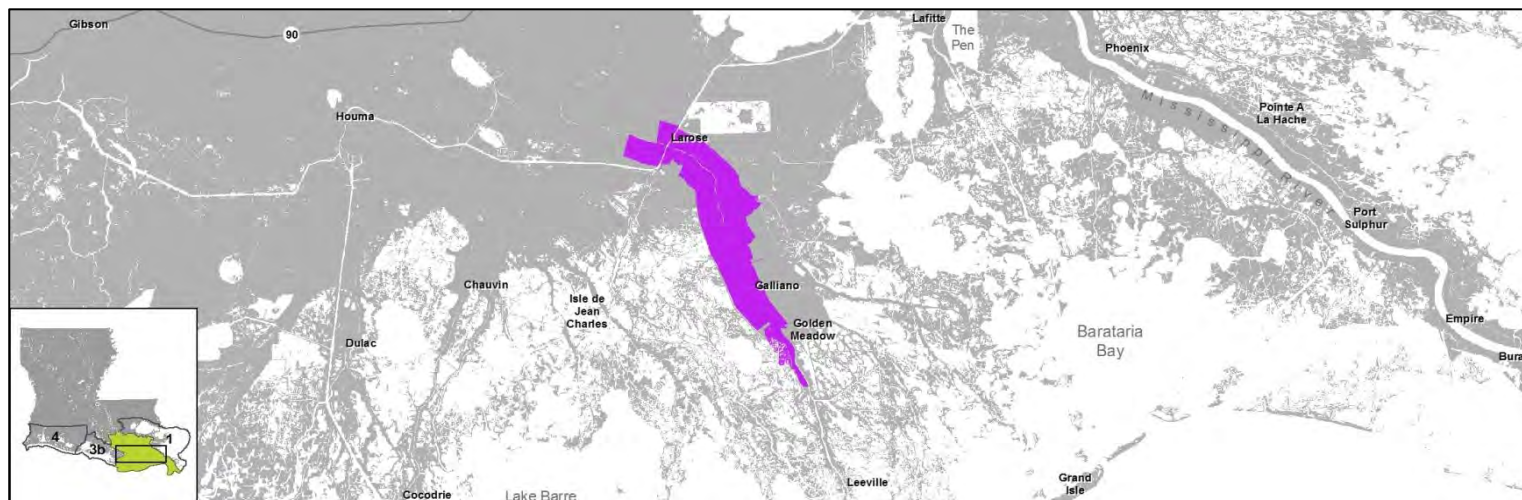
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Larose, Cut Off, Galliano, and Golden Meadow.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$11081M	\$9098M	\$11314M	\$9379M
100 Year Event	\$12117M	\$10447M	\$12086M	\$10362M
500 Year Event	\$14076M	\$12971M	\$13983M	\$12996M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	680		\$	53,050,000
Residential Elevated	5680		\$	958,634,000
Voluntary Residential Acquired	0		\$	-
Total	6360		\$	1,011,684,000

Larose/Cut Off/Galliano/Golden Meadow (High)

Nonstructural BFE + 4

Project ID: LAR.100.2



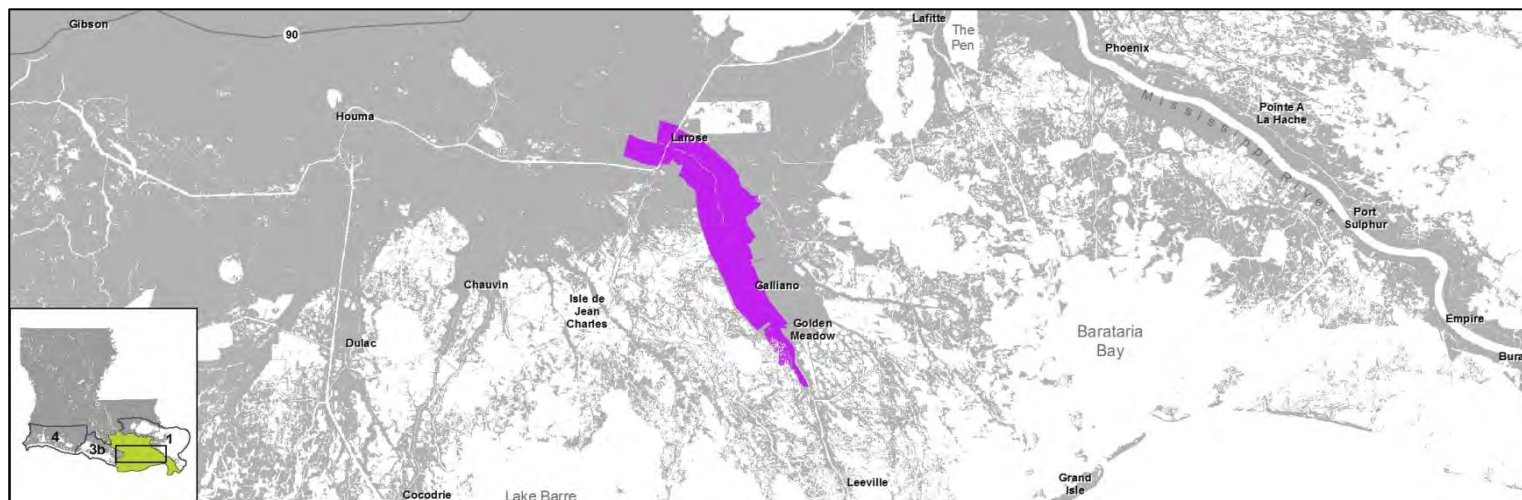
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures in the communities of Larose, Cut Off, Galliano, and Golden Meadow.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$11081M	\$8688M	\$11314M	\$8909M
100 Year Event	\$12117M	\$9677M	\$12086M	\$9651M
500 Year Event	\$14076M	\$11719M	\$13983M	\$11662M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	60	\$ 33,811,000
Residential Elevated	6130	\$ 1,061,725,000
Voluntary Residential Acquired	740	\$ 254,760,000
Total	6930	\$ 1,350,296,000

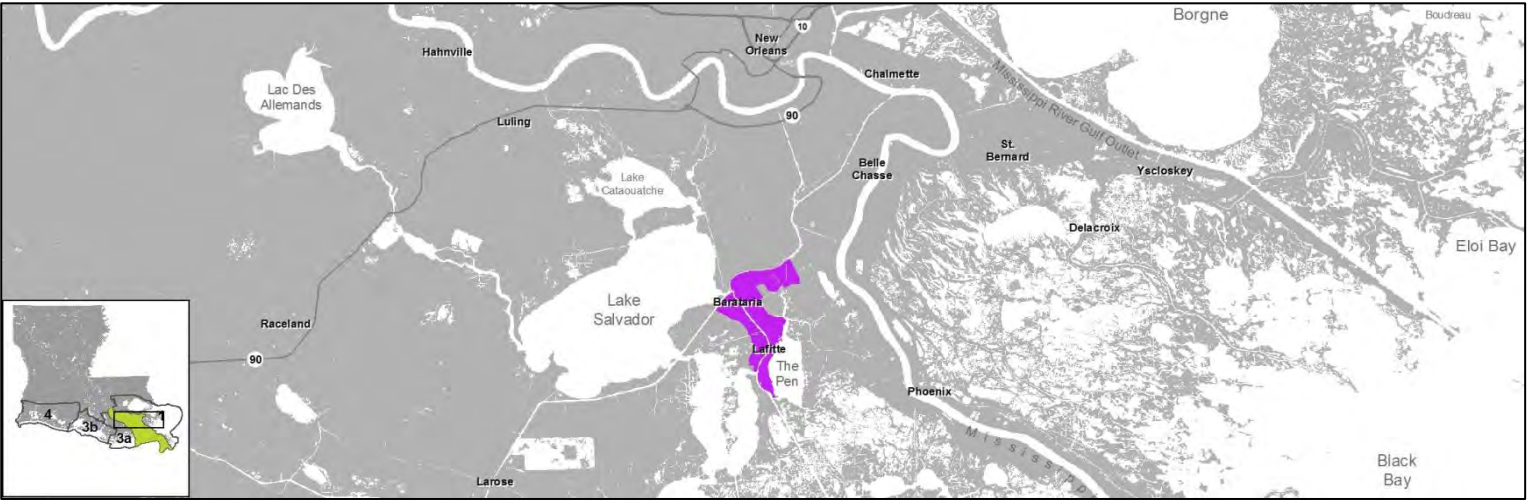
Lafitte/Jean Lafitte/Barataria

Nonstructural BFE + 1

Project ID: LFT.100.1



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

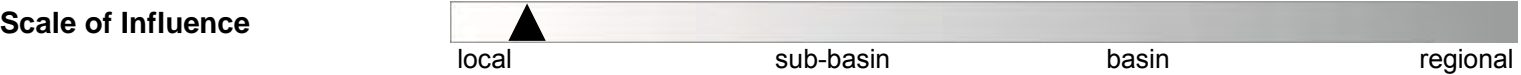
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Lafitte, Jean Lafitte, and Barataria.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$1628M	\$1360M	\$2036M	\$1857M
100 Year Event	\$1986M	\$1787M	\$2438M	\$2342M
500 Year Event	\$2554M	\$2480M	\$2632M	\$2558M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	90	\$	8,232,000
	Residential Elevated	870	\$	145,417,000
	Voluntary Residential Acquired	0	\$	-
	Total	960	\$	153,649,000

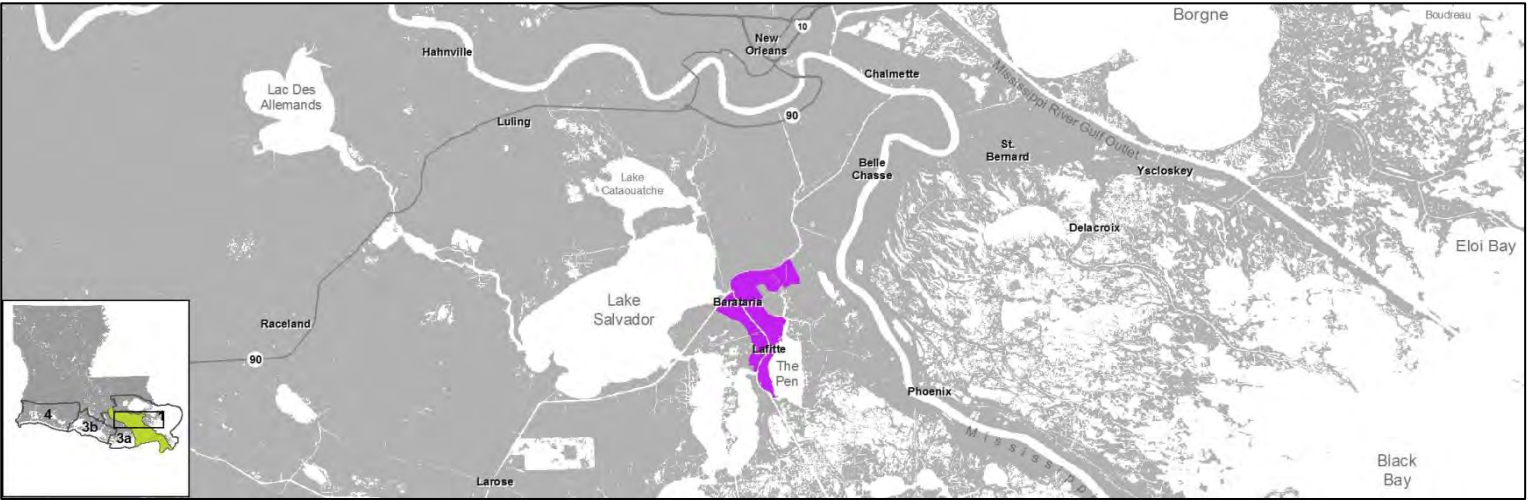
Lafitte/Jean Lafitte/Barataria (High)

Nonstructural BFE + 4

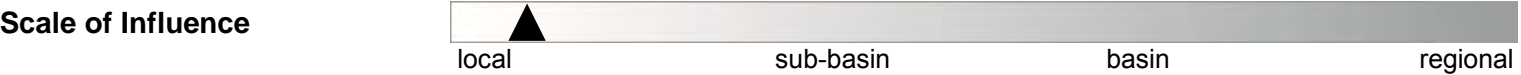
Project ID: LFT.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	<p>Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Lafitte, Jean Lafitte, and Barataria.</p> <p>Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.</p>



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
	50 Year Event	\$1628M	\$1357M	\$2036M	\$1766M
	100 Year Event	\$1986M	\$1716M	\$2438M	\$2163M
	500 Year Event	\$2554M	\$2283M	\$2632M	\$2460M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	5,723,000
	Residential Elevated	950	\$	161,958,000
	Voluntary Residential Acquired	0	\$	-
	Total	960	\$	167,681,000

Livingston Parish - Rural Areas

Nonstructural BFE + 1

Project ID: LIV.050.1



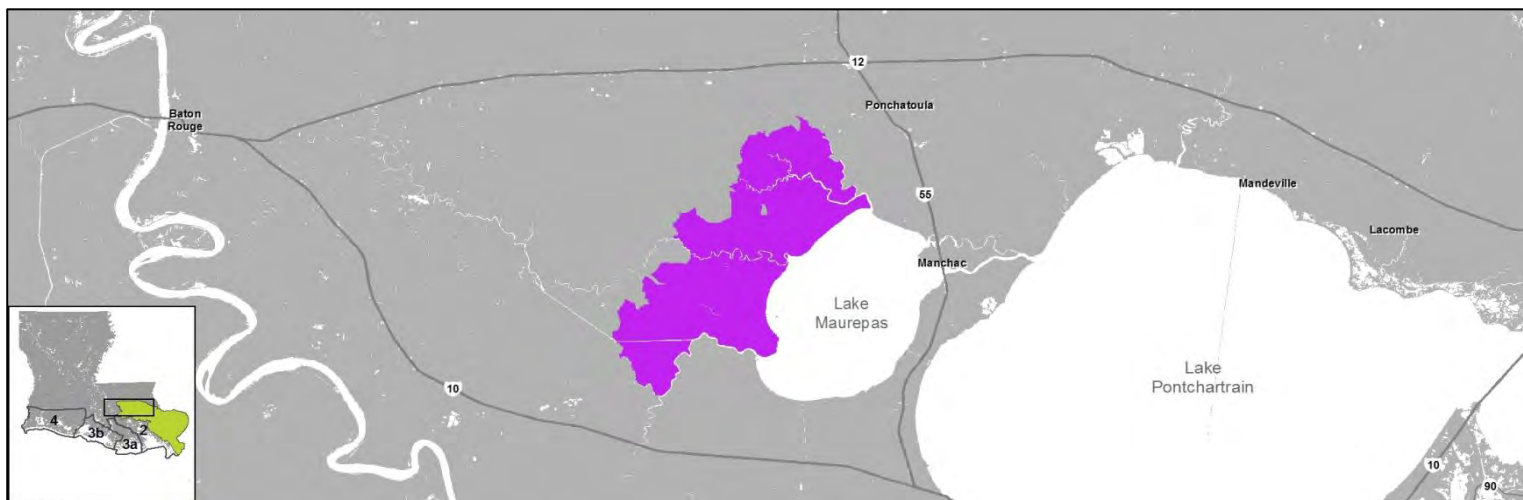
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Livingston Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1926M	\$1605M	\$2261M	\$2006M
100 Year Event	\$2261M	\$2006M	\$2499M	\$2288M
500 Year Event	\$2609M	\$2430M	\$2698M	\$2581M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	580	\$	33,568,000
Residential Elevated	420	\$	63,077,000
Voluntary Residential Acquired	0	\$	-
Total	1000	\$	96,645,000

Livingston Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: LIV.050.2



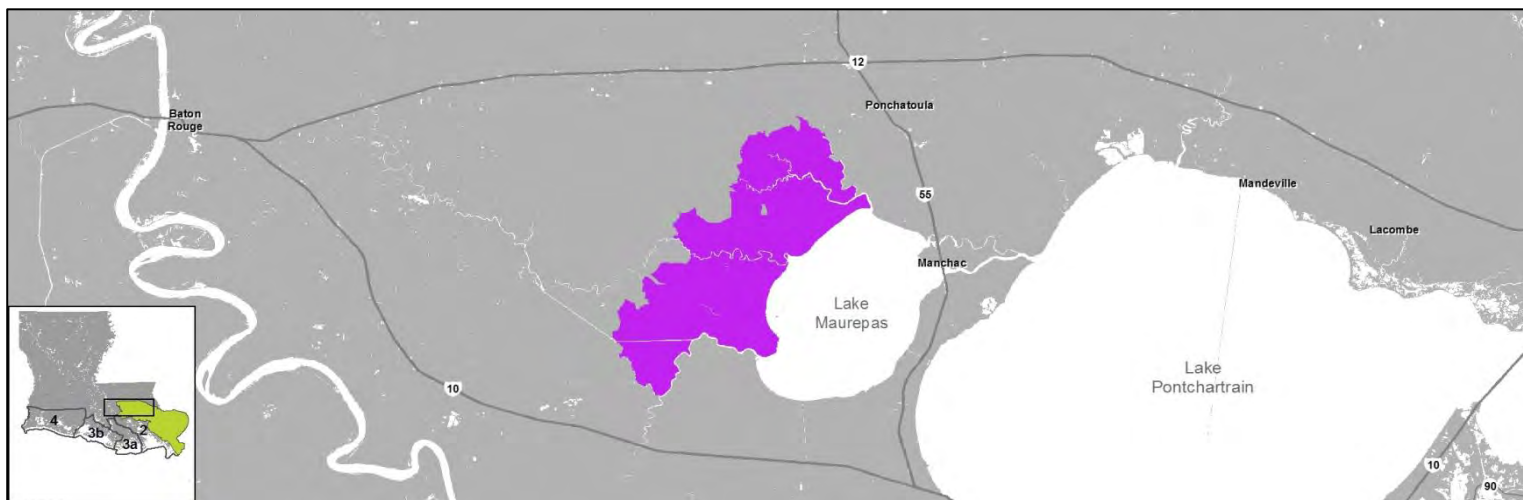
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Livingston Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1926M	\$1478M	\$2261M	\$1872M
100 Year Event	\$2261M	\$1872M	\$2499M	\$2125M
500 Year Event	\$2609M	\$2218M	\$2698M	\$2307M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	30	\$	21,726,000
Residential Elevated	1000	\$	159,470,000
Voluntary Residential Acquired	0	\$	-
Total	1030	\$	181,196,000

Luling/Boutte

Nonstructural BFE + 1

Project ID: LUL.100.1



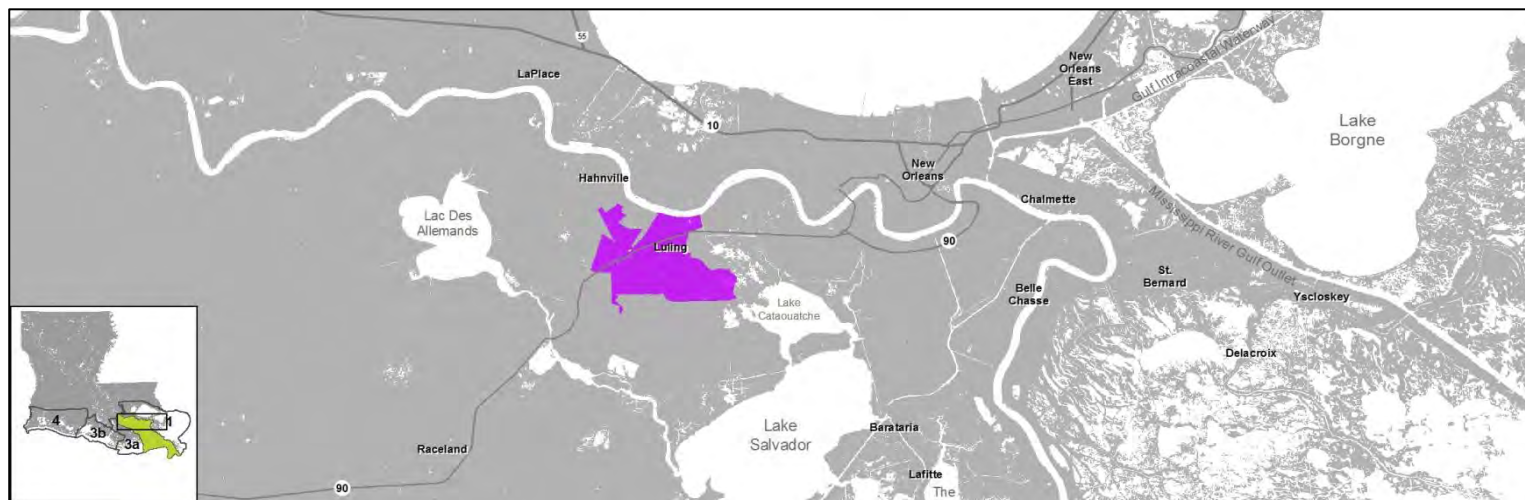
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Luling and Boutte.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$6497M	\$4789M	\$6802M	\$5586M
100 Year Event	\$6679M	\$5310M	\$7054M	\$6614M
500 Year Event	\$6857M	\$6613M	\$8042M	\$7907M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	2380		\$	175,772,000
Residential Elevated	380		\$	59,892,000
Voluntary Residential Acquired	0		\$	-
Total	2760		\$	235,664,000

Luling/Boutte (High)

Nonstructural BFE + 4

Project ID: LUL.100.2



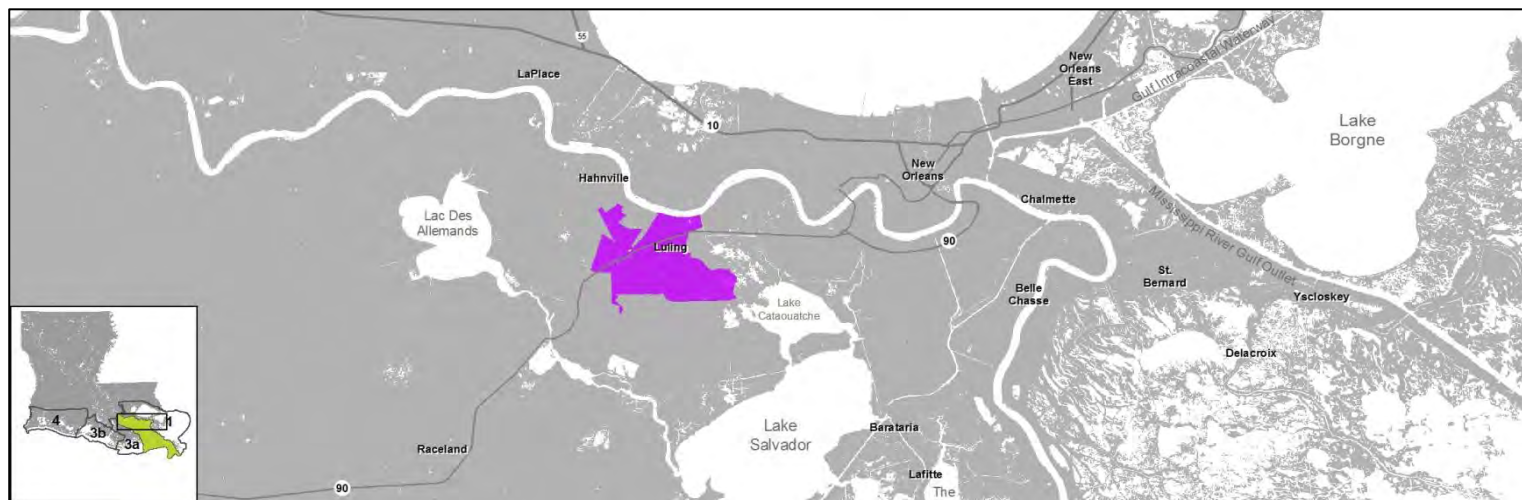
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Luling and Boutte.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$6497M	\$4268M	\$6802M	\$4984M
100 Year Event	\$6679M	\$4707M	\$7054M	\$5414M
500 Year Event	\$6857M	\$5309M	\$8042M	\$6338M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	180		\$	100,946,000
Residential Elevated	2990		\$	487,715,000
Voluntary Residential Acquired	0		\$	-
Total	3170		\$	588,661,000

Mandeville/Madisonville

Nonstructural BFE + 1

Project ID: MAN.100.1



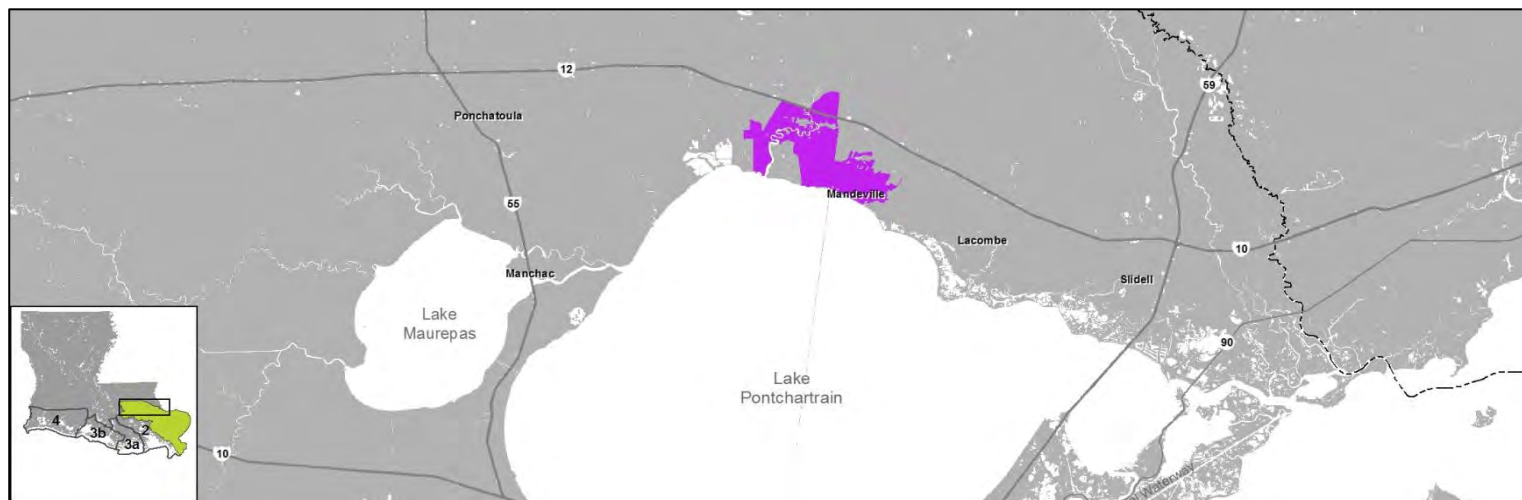
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Madisonville and Mandeville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$5448M	\$4440M	\$7936M	\$6839M
100 Year Event	\$8781M	\$7682M	\$11591M	\$10406M
500 Year Event	\$15056M	\$14193M	\$17843M	\$17326M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1430	\$	192,105,000
Residential Elevated	400	\$	70,379,000
Voluntary Residential Acquired	0	\$	-
Total	1830	\$	262,484,000

Mandeville/Madisonville (High)

Nonstructural BFE + 4

Project ID: MAN.100.2



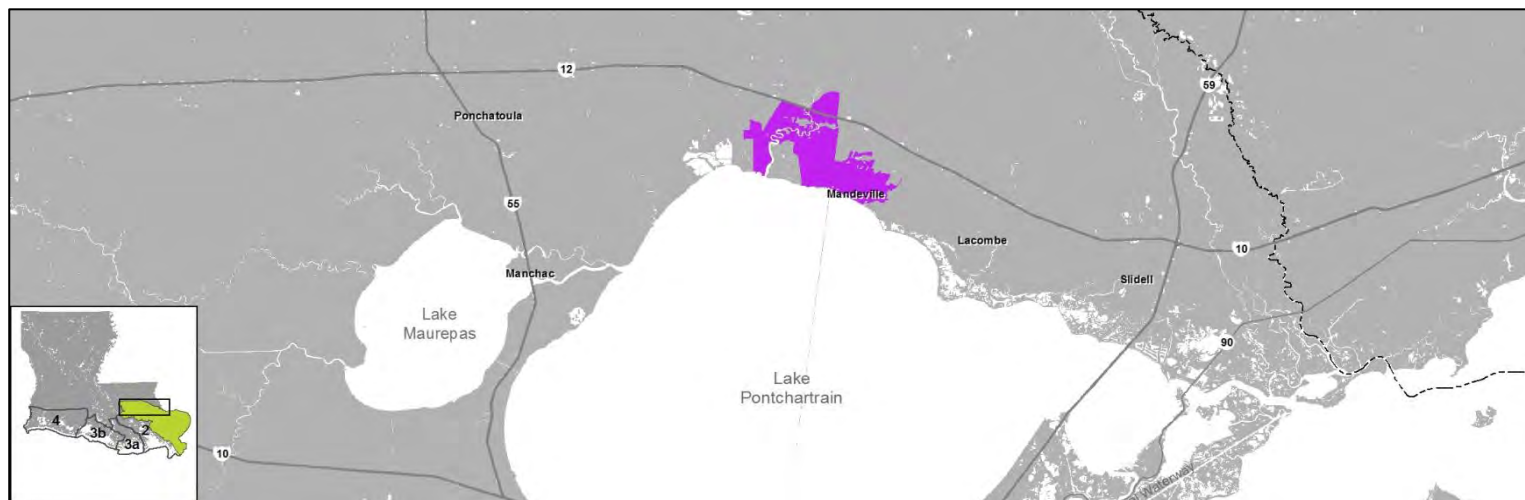
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Madisonville and Mandeville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$5448M	\$4356M	\$7936M	\$6646M
100 Year Event	\$8781M	\$7446M	\$11591M	\$10115M
500 Year Event	\$15056M	\$13514M	\$17843M	\$16293M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	230	\$	146,588,000
Residential Elevated	2050	\$	361,782,000
Voluntary Residential Acquired	0	\$	-
Total	2280	\$	508,370,000

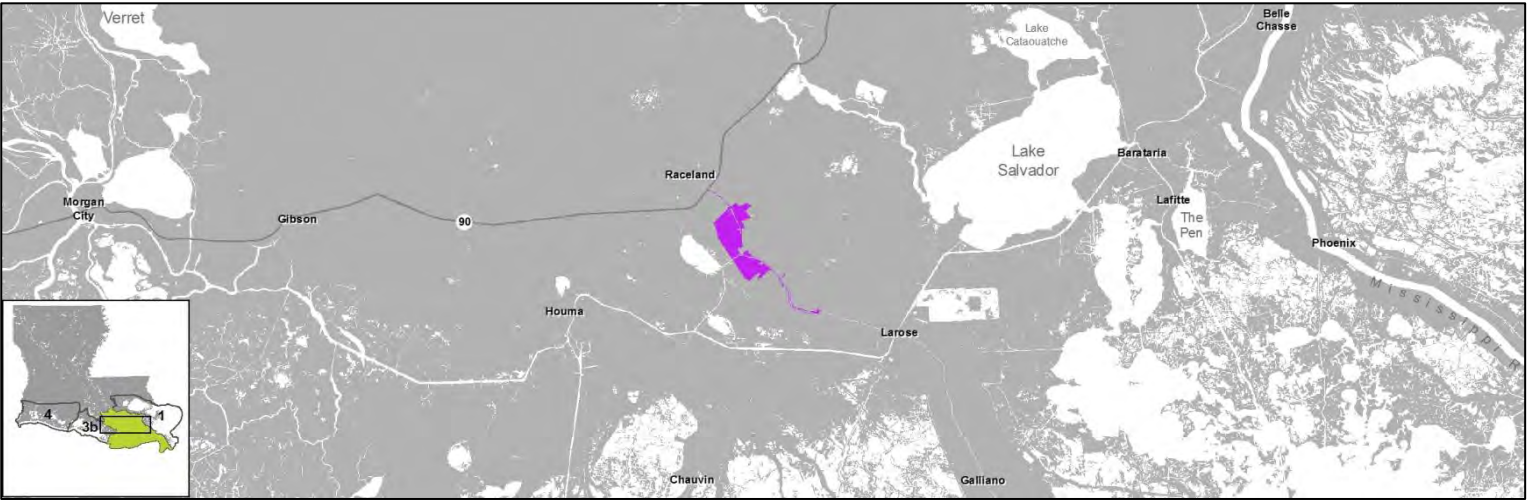
Mathews/Lockport/Lockport Heights

Nonstructural BFE + 1

Project ID: MAT.100.1

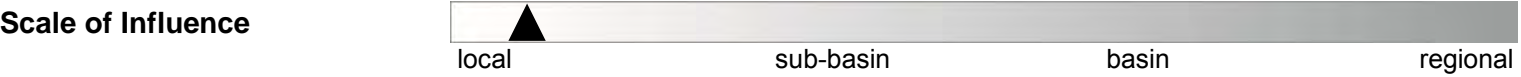


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Mathews, Lockport, and Lockport Heights.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
	50 Year Event	\$6143M	\$5300M	\$7060M	\$6798M
	100 Year Event	\$6703M	\$6252M	\$7555M	\$7462M
	500 Year Event	\$7542M	\$7448M	\$7917M	\$7843M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	670	\$	91,585,000
	Residential Elevated	350	\$	55,747,000
	Voluntary Residential Acquired	0	\$	-
	Total	1020	\$	147,332,000

Mathews/Lockport/Lockport Heights (High)

Nonstructural BFE + 4

Project ID: MAT.100.2



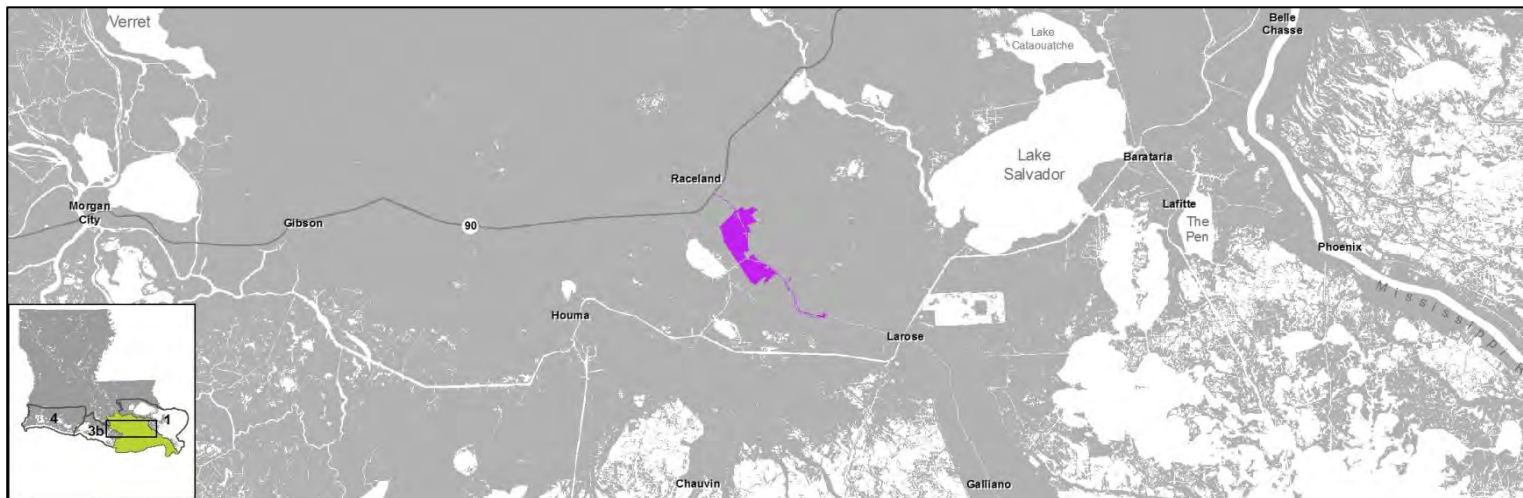
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Mathews, Lockport, and Lockport Heights.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$6143M	\$5120M	\$7060M	\$6208M
100 Year Event	\$6703M	\$5810M	\$7555M	\$6712M
500 Year Event	\$7542M	\$6696M	\$7917M	\$7047M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	150	\$	75,569,000
Residential Elevated	940	\$	155,431,000
Voluntary Residential Acquired	0	\$	-
Total	1090	\$	231,000,000

Metairie/Kenner

Nonstructural BFE + 1

Project ID: MET.500.1



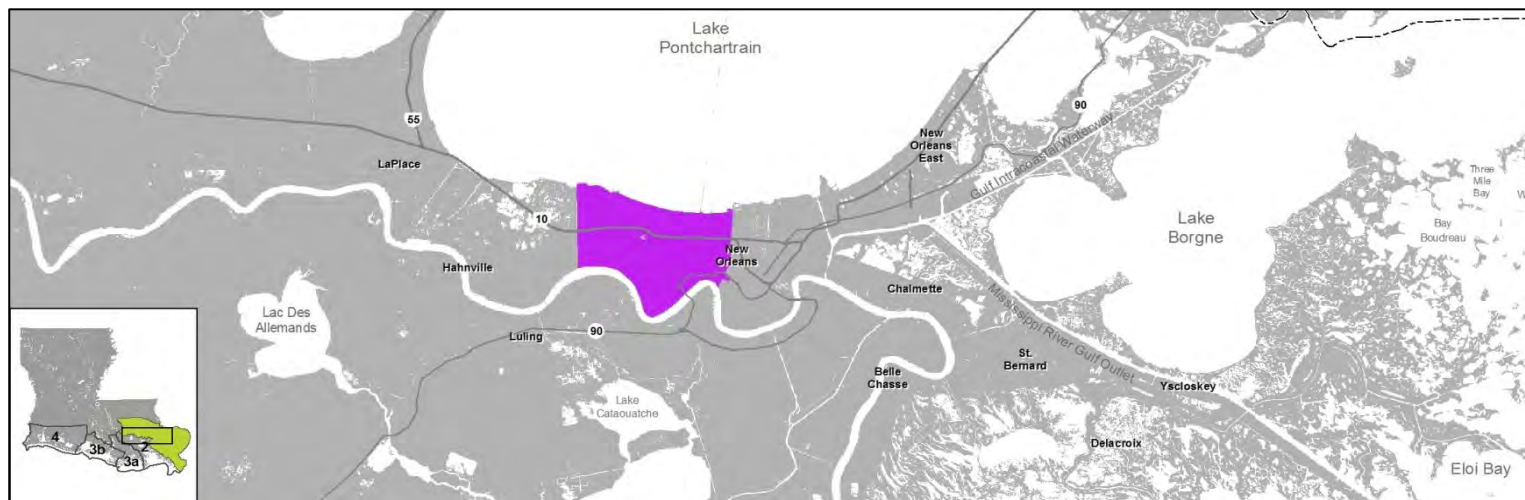
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures in the communities of Metairie, Kenner, Elmwood, Harahan, Jefferson, and River Ridge.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$98M	\$81M	\$204747M	\$201176M
100 Year Event	\$115M	\$97M	\$207592M	\$204707M
500 Year Event	\$210157M	\$207473M	\$212388M	\$210289M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	19710	\$ 1,985,925,000
Residential Elevated	740	\$ 122,315,000
Voluntary Residential Acquired	20	\$ 22,503,000
Total	20470	\$ 2,130,743,000

Metairie/Kenner (High)

Nonstructural BFE + 4

Project ID: MET.500.2



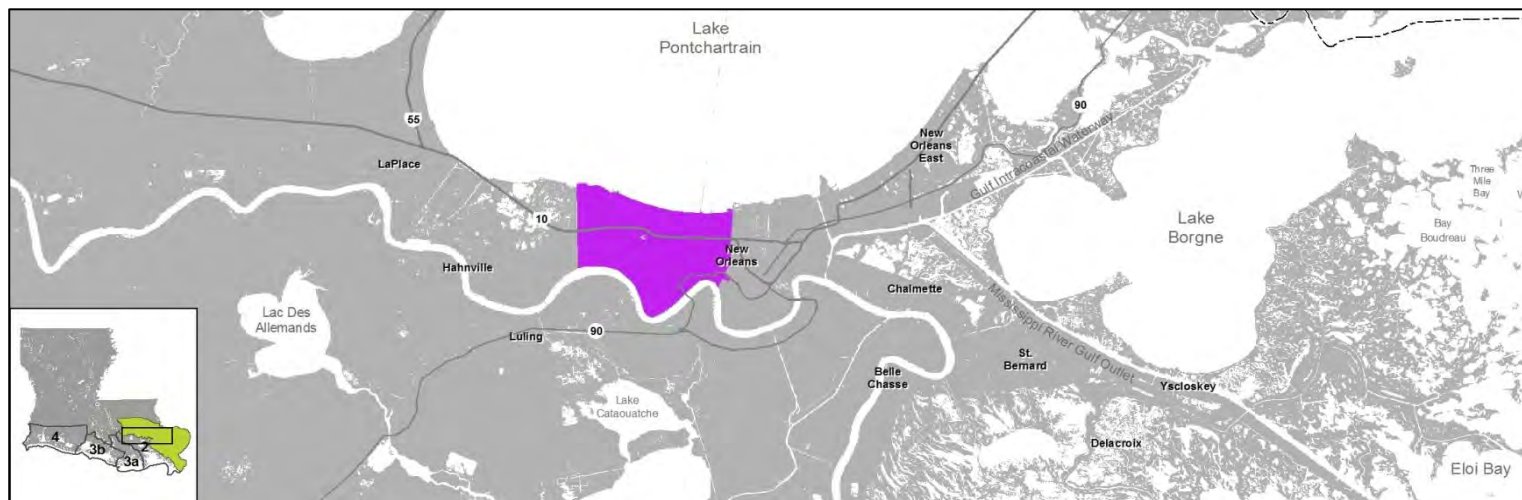
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures in the communities of Metairie, Kenner, Elmwood, Harahan, Jefferson, and River Ridge.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$98M	\$81M	\$204747M	\$191888M
100 Year Event	\$115M	\$97M	\$207592M	\$195444M
500 Year Event	\$210157M	\$198838M	\$212388M	\$202743M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	2120	\$ 1,353,582,000
Residential Elevated	35050	\$ 5,691,000,000
Voluntary Residential Acquired	100	\$ 54,502,000
Total	37270	\$ 7,099,084,000

New Orleans East

Nonstructural BFE + 1

Project ID: NOE.100.1



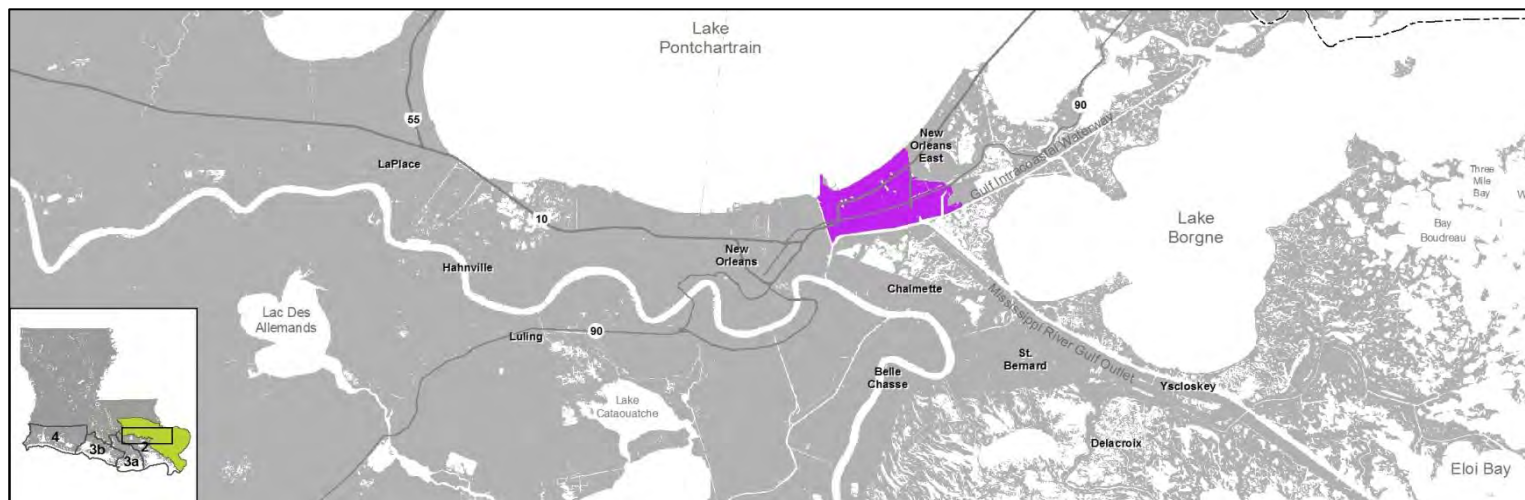
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of New Orleans East.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$9M	\$9M	\$13M	\$13M
100 Year Event	\$9M	\$9M	\$104M	\$93M
500 Year Event	\$13M	\$13M	\$39057M	\$39046M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	3680	\$ 653,194,000
Residential Elevated	5720	\$ 911,445,000
Voluntary Residential Acquired	0	\$ -
Total	9400	\$ 1,564,639,000

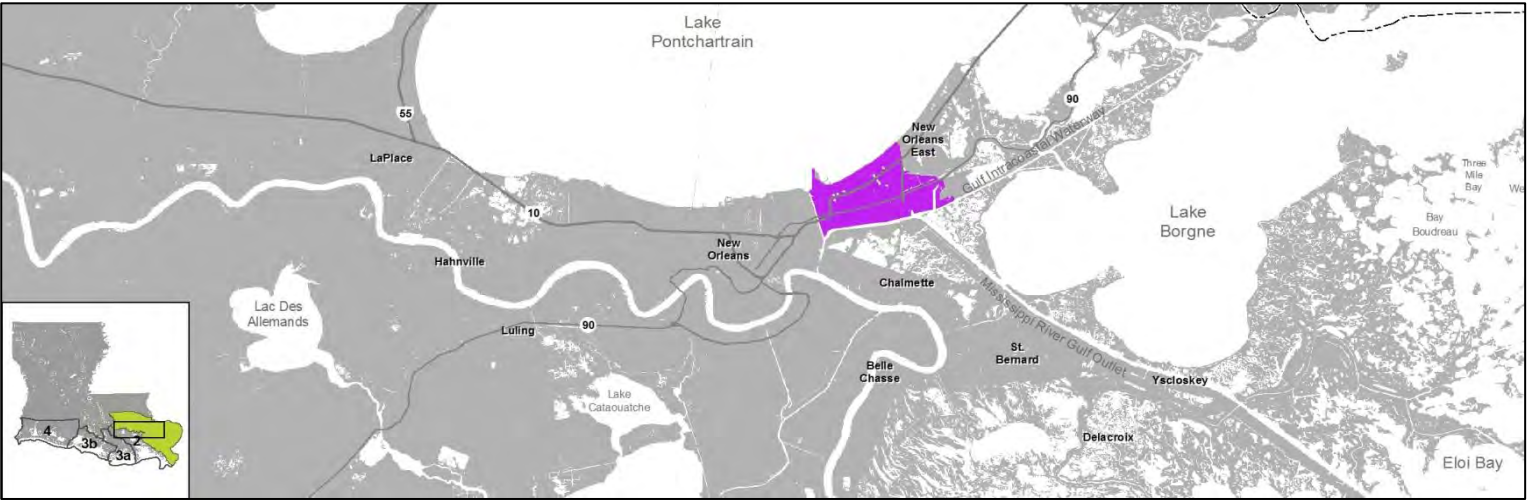
New Orleans East (High)

Nonstructural BFE + 4

Project ID: NOE.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

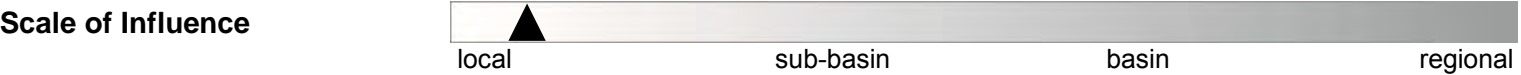
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of New Orleans East.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$9M	\$9M	\$13M	\$13M
100 Year Event	\$9M	\$9M	\$104M	\$93M
500 Year Event	\$13M	\$13M	\$39057M	\$38771M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	840	\$	553,088,000
	Residential Elevated	9150	\$	1,564,959,000
	Voluntary Residential Acquired	0	\$	-
	Total	9990	\$	2,118,047,000



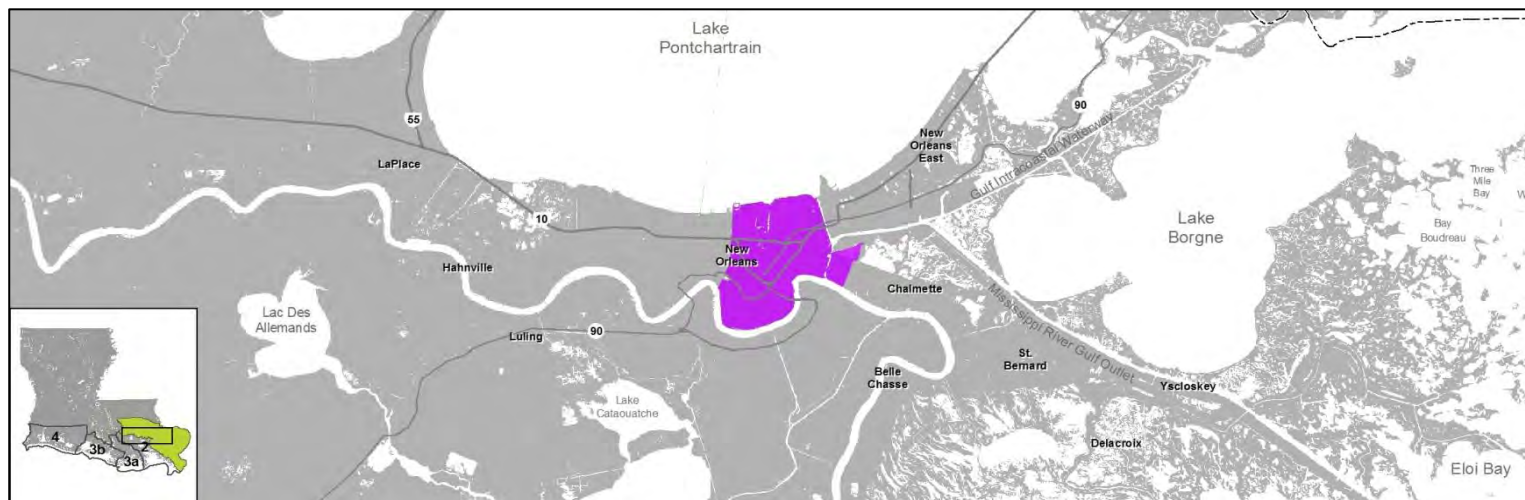
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures in the community of New Orleans.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$400M	\$347M	\$197393M	\$177968M
100 Year Event	\$403M	\$349M	\$204071M	\$189065M
500 Year Event	\$211452M	\$201350M	\$214380M	\$207182M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	23400	\$ 5,114,685,000
Residential Elevated	5430	\$ 930,870,000
Voluntary Residential Acquired	10	\$ 4,171,000
Total	28840	\$ 6,049,726,000

New Orleans (High)

Nonstructural BFE + 4

Project ID: NOR.500.2



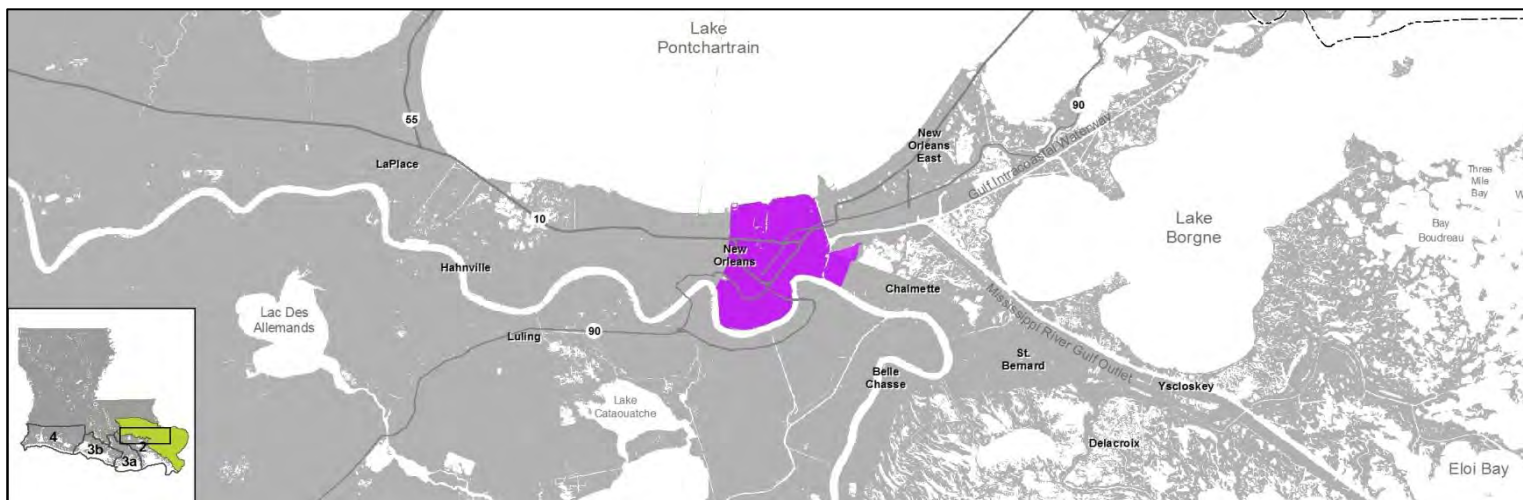
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures in the community of New Orleans.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$400M	\$285M	\$197393M	\$144459M
100 Year Event	\$403M	\$286M	\$204071M	\$155316M
500 Year Event	\$211452M	\$167712M	\$214380M	\$174921M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	8120	\$ 4,552,115,000
Residential Elevated	34860	\$ 5,840,798,000
Voluntary Residential Acquired	220	\$ 119,059,000
Total	43200	\$ 10,511,972,000

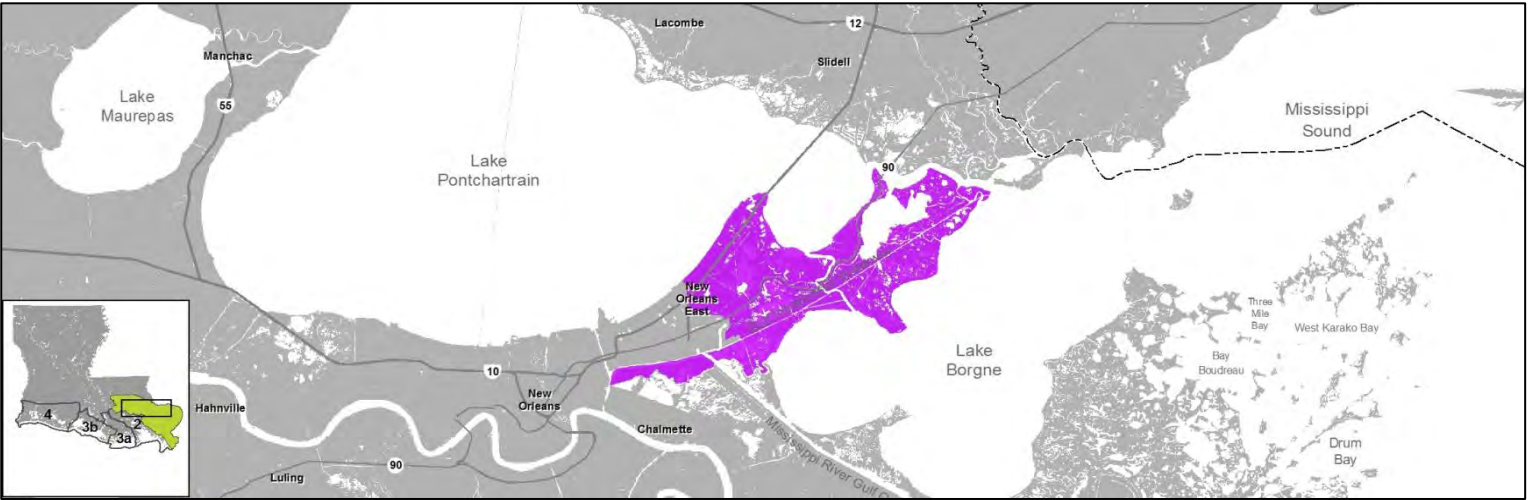
Orleans Parish - Rural Areas

Nonstructural BFE + 1

Project ID: ORL.050.1



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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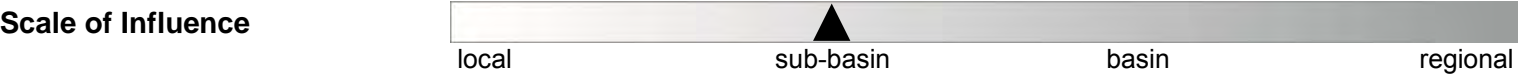


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Orleans Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$522M	\$461M	\$545M	\$477M
100 Year Event	\$553M	\$486M	\$663M	\$633M
500 Year Event	\$783M	\$778M	\$1819M	\$1812M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	40	\$	13,837,000
	Residential Elevated	260	\$	45,763,000
	Voluntary Residential Acquired	10	\$	314,000
	Total	310	\$	59,914,000

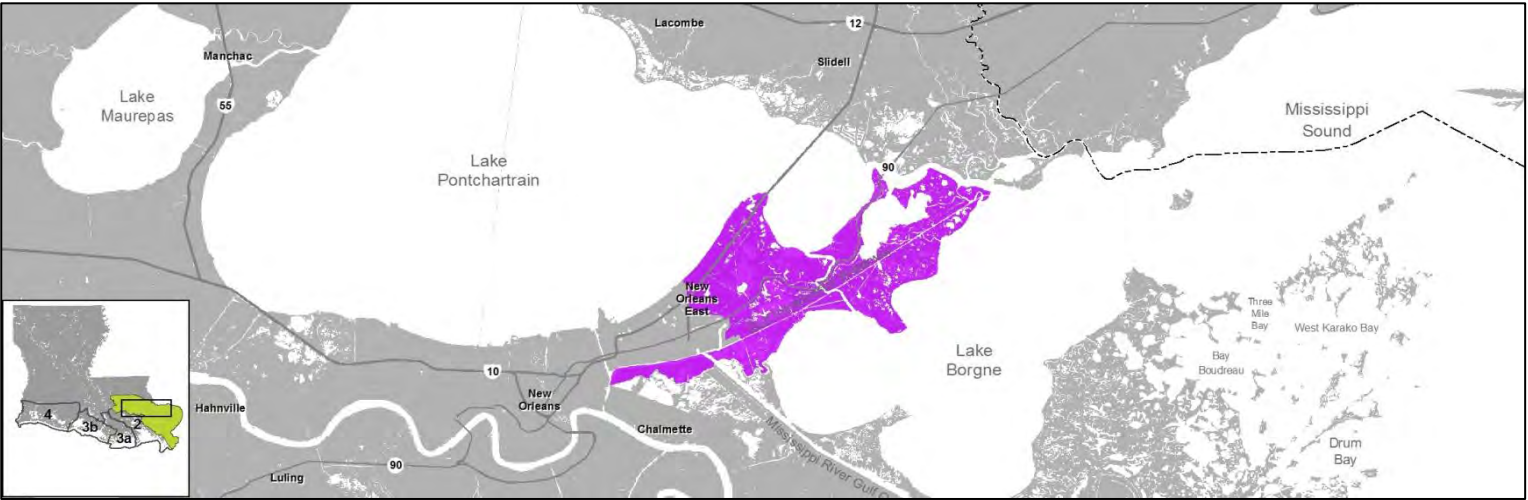
Orleans Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: ORL.050.2



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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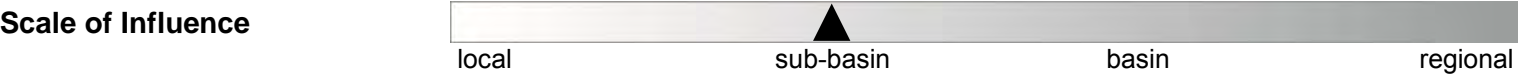


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Orleans Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$522M	\$414M	\$545M	\$450M
100 Year Event	\$553M	\$457M	\$663M	\$582M
500 Year Event	\$783M	\$696M	\$1819M	\$1761M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	30	\$	13,708,000
	Residential Elevated	250	\$	45,462,000
	Voluntary Residential Acquired	90	\$	16,856,000
	Total	370	\$	76,026,000

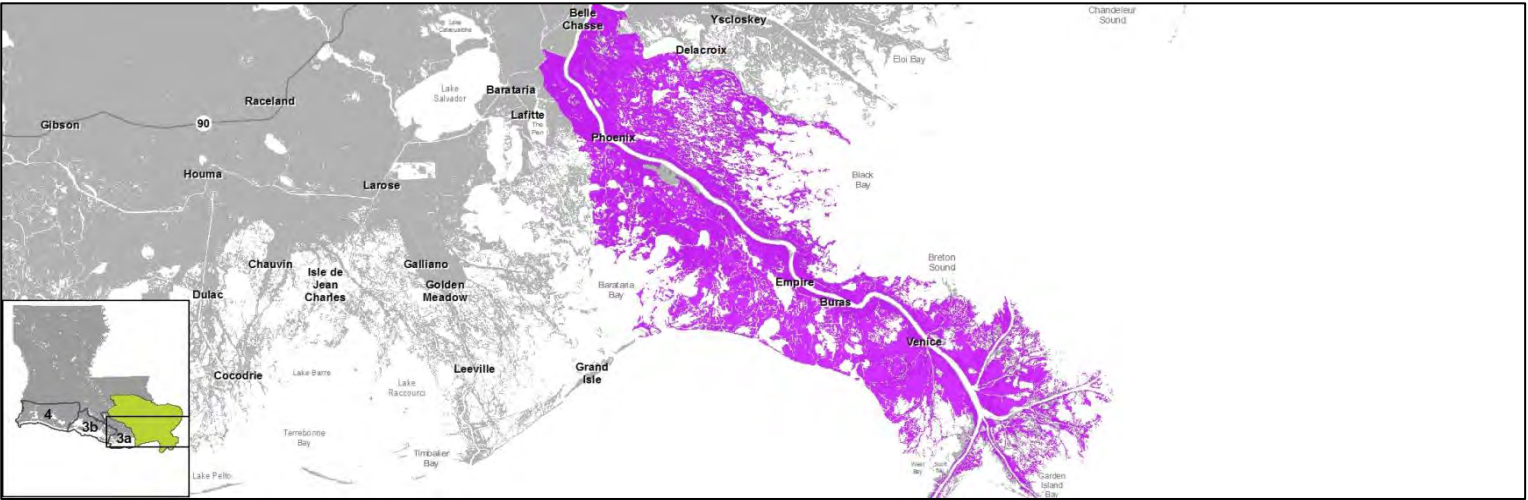
Plaquemines Parish - Rural Areas

Nonstructural BFE + 1

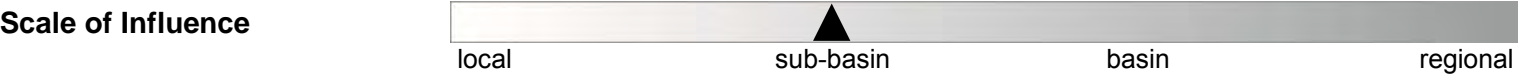
Project ID: PLA.050.1



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	<p>Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Plaquemines Parish.</p> <p>Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.</p>



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$5445M	\$4925M	\$5690M	\$5138M
100 Year Event	\$5848M	\$5294M	\$6228M	\$5733M
500 Year Event	\$6461M	\$6283M	\$6467M	\$6274M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	480	\$	53,106,000
	Residential Elevated	1080	\$	177,798,000
	Voluntary Residential Acquired	50	\$	10,471,000
	Total	1610	\$	241,375,000

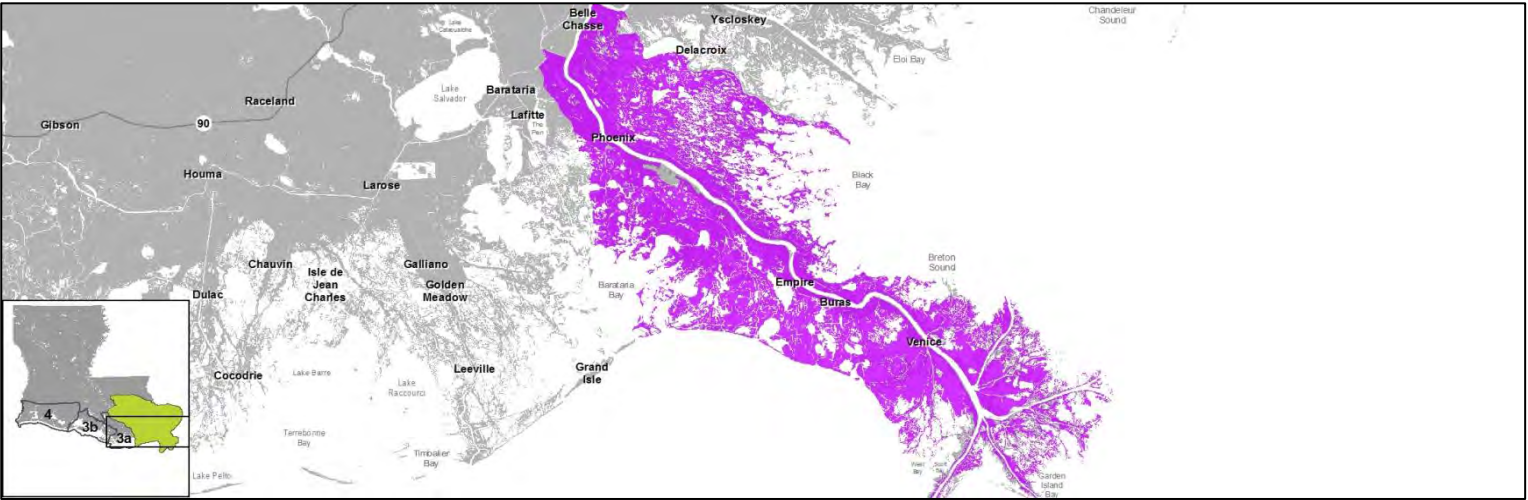
Plaquemines Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: PLA.050.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Plaquemines Parish.

Scale of Influence

local

sub-basin

basin

regional

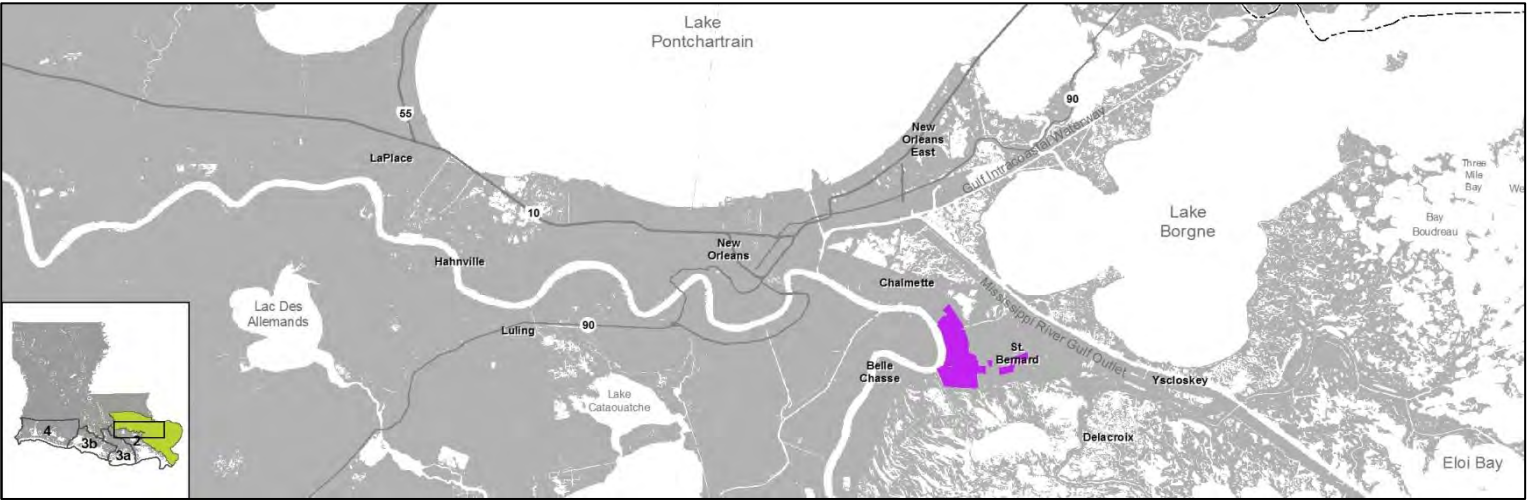
Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate FWOA	Moderate FWP	Less Optimistic FWOA	Less Optimistic FWP
50 Year Event	\$5445M	\$4657M	\$5690M	\$4951M
100 Year Event	\$5848M	\$5179M	\$6228M	\$5531M
500 Year Event	\$6461M	\$5915M	\$6467M	\$5924M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*	Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	60	\$ 46,248,000
	Residential Elevated	1440	\$ 230,801,000
	Voluntary Residential Acquired	610	\$ 141,559,000
	Total	2110	\$ 418,608,000

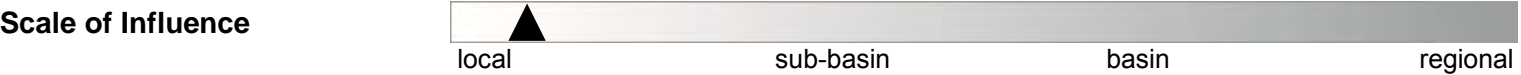


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Poydras and Violet.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$3265M	\$2876M	\$3186M	\$2616M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	710	\$	46,025,000
	Residential Elevated	1110	\$	172,612,000
	Voluntary Residential Acquired	0	\$	-
	Total	1820	\$	218,637,000

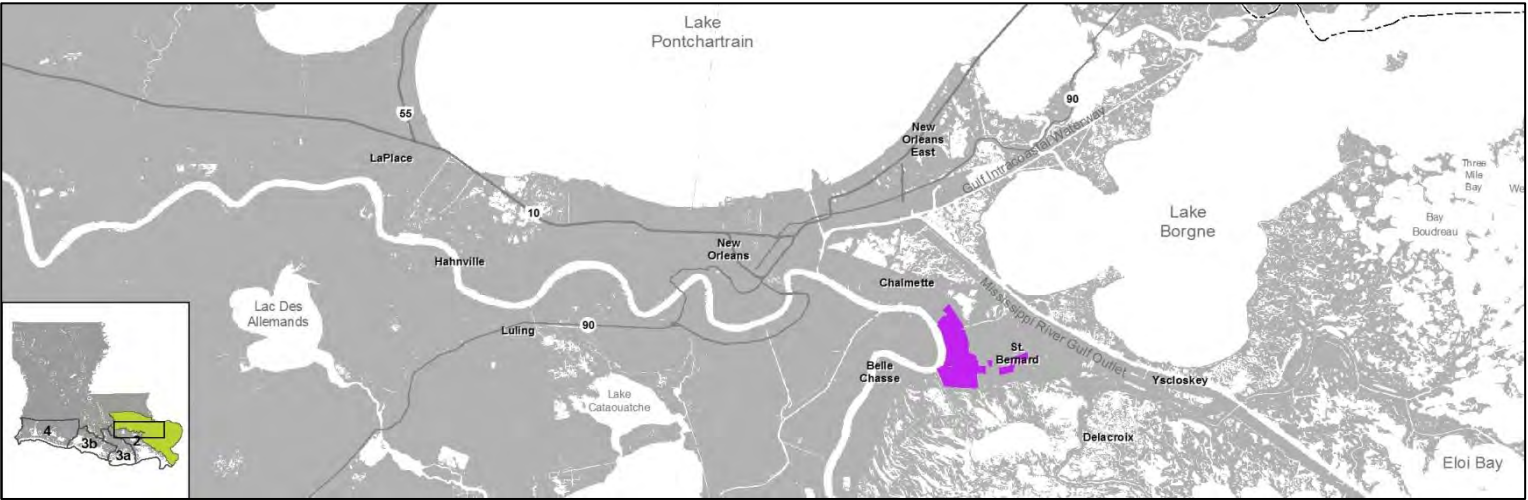
Poydras/Violet (High)

Nonstructural BFE + 4

Project ID: POY.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

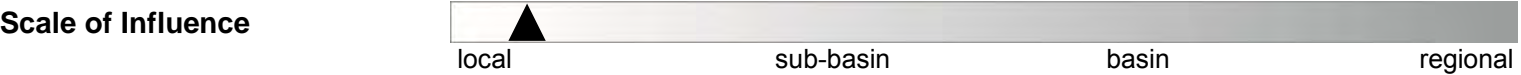


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Poydras and Violet.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$3265M	\$2748M	\$3186M	\$2403M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	60	\$	30,116,000
	Residential Elevated	1700	\$	274,557,000
	Voluntary Residential Acquired	0	\$	-
	Total	1760	\$	304,673,000



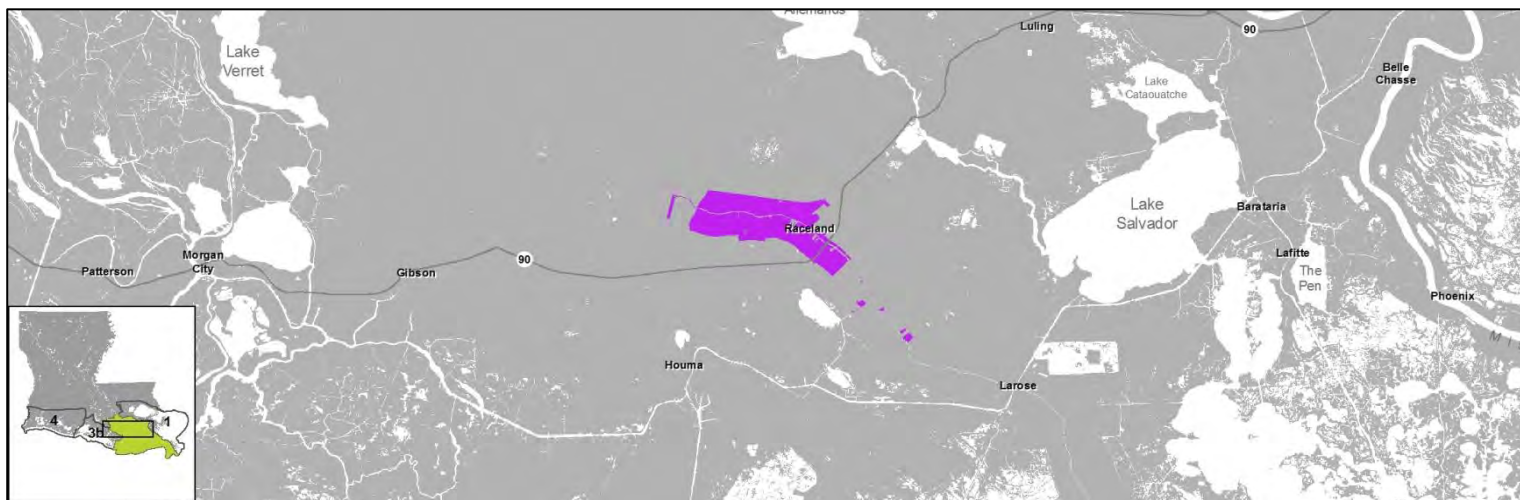
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Raceland.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$3152M	\$2792M	\$4615M	\$4492M
100 Year Event	\$3995M	\$3851M	\$4995M	\$4854M
500 Year Event	\$4848M	\$4704M	\$5353M	\$5280M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	480		\$	53,828,000
Residential Elevated	120		\$	17,704,000
Voluntary Residential Acquired	0		\$	-
Total	600		\$	71,532,000

Raceland (High)

Nonstructural BFE + 4

Project ID: RAC.100.2



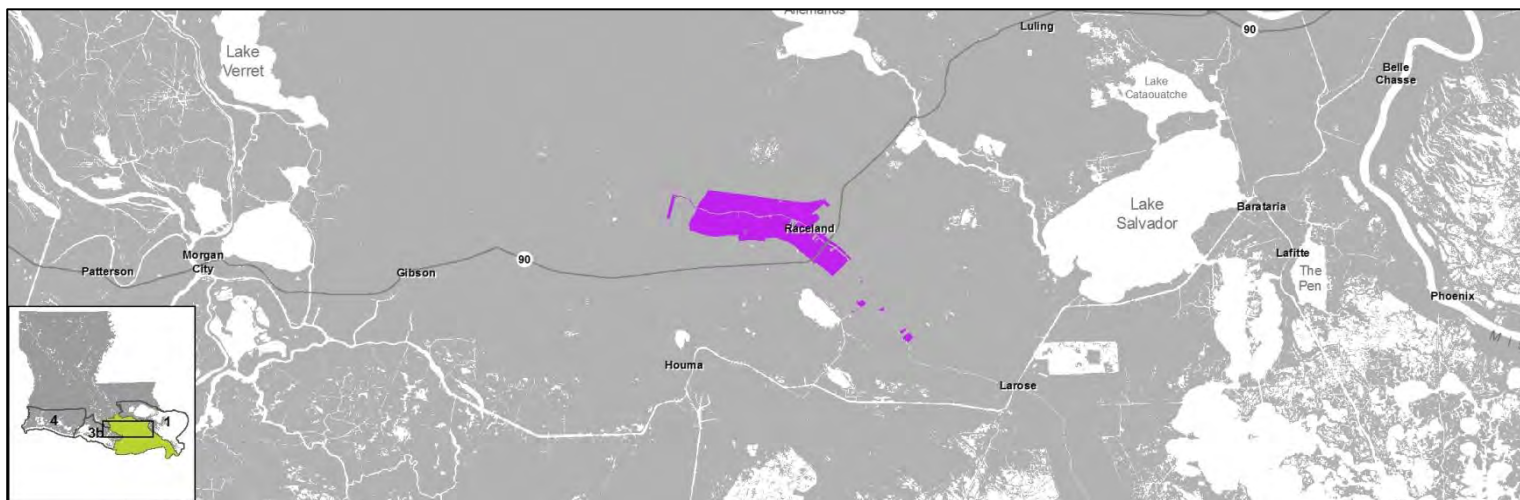
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Raceland.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$3152M	\$2673M	\$4615M	\$4144M
100 Year Event	\$3995M	\$3506M	\$4995M	\$4523M
500 Year Event	\$4848M	\$4365M	\$5353M	\$4975M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	70	\$	41,067,000
Residential Elevated	860	\$	131,966,000
Voluntary Residential Acquired	0	\$	-
Total	930	\$	173,033,000

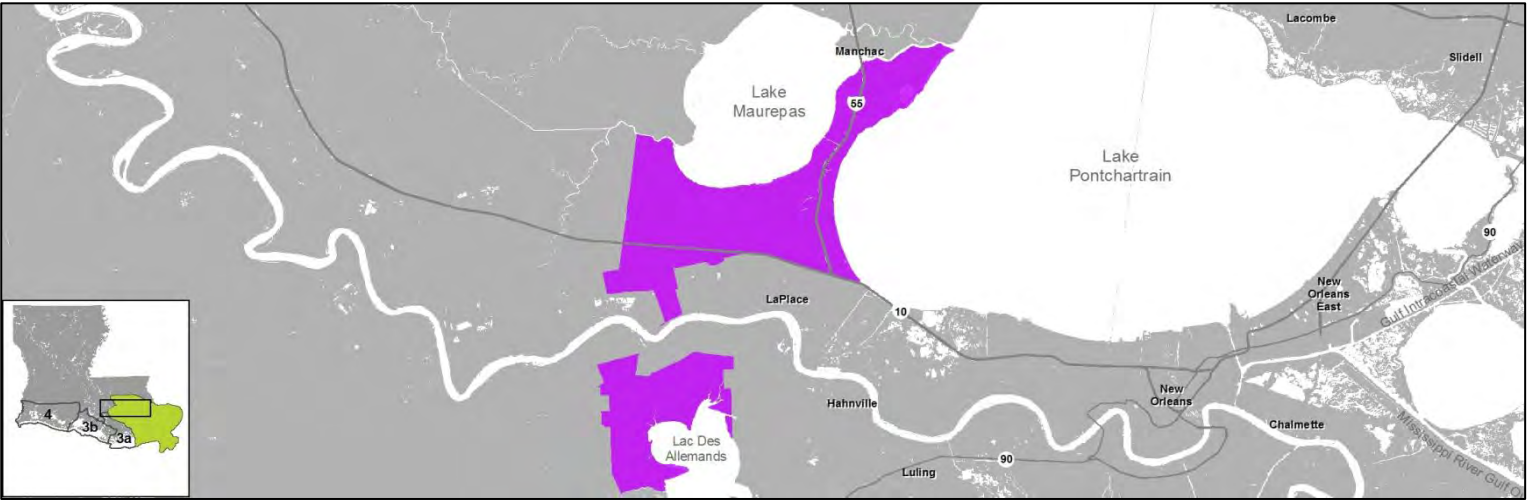
Saint John the Baptist Parish - Rural Areas

Nonstructural BFE + 1

Project ID: SJB.050.1

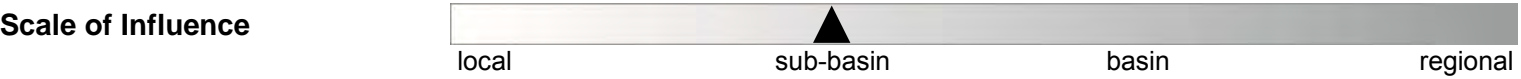


Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Saint John the Baptist Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project	50 Year Event	\$163M	\$156M	\$211M	\$209M
	100 Year Event	\$200M	\$199M	\$222M	\$221M
	500 Year Event	\$217M	\$216M	\$233M	\$232M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	39,000
	Residential Elevated	20	\$	3,421,000
	Voluntary Residential Acquired	0	\$	-
	Total	30	\$	3,460,000

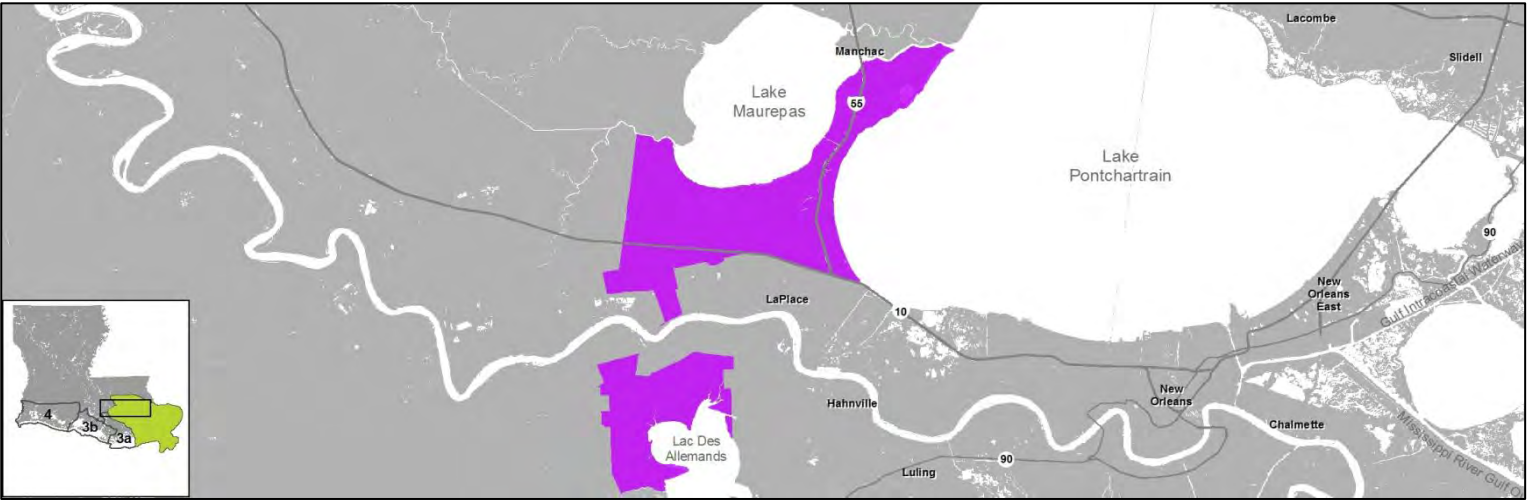
Saint John the Baptist Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: SJB.050.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

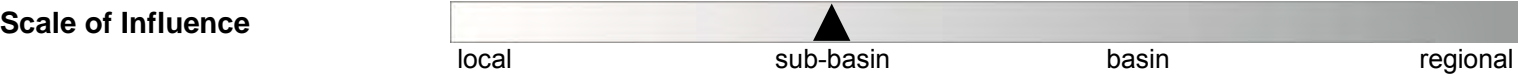
Project Status

Conceptual Phase

Description

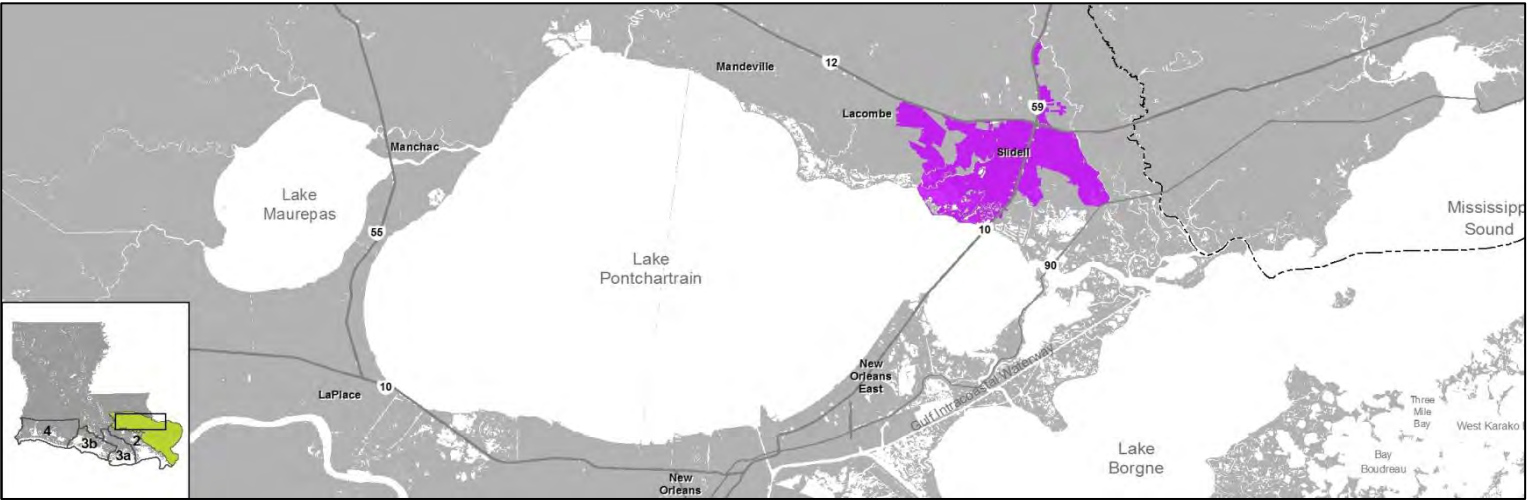
Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Saint John the Baptist Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$163M	\$140M	\$211M	\$186M
100 Year Event	\$200M	\$176M	\$222M	\$197M
500 Year Event	\$217M	\$197M	\$233M	\$226M

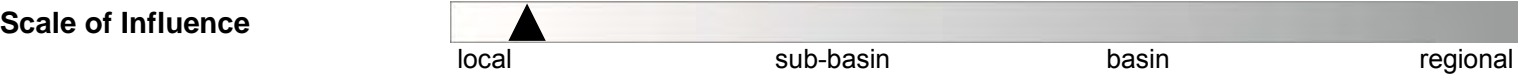
Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	25,000
	Residential Elevated	130	\$	18,472,000
	Voluntary Residential Acquired	10	\$	62,000
	Total	150	\$	18,559,000



Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Slidell, Eden Isle, and Pearl River.
Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction

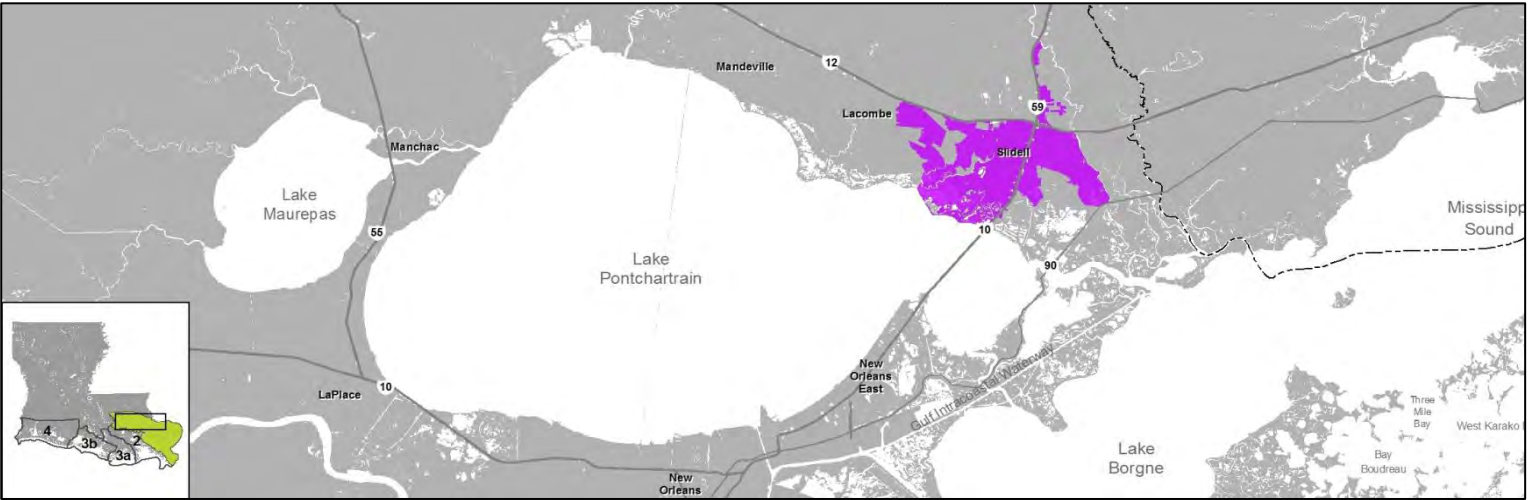
FWOA = Future without Action
FWP = Future with Project

Table with 4 columns: Event Type (50 Year, 100 Year, 500 Year), FWOA, FWP, and Less Optimistic FWOA/FWP. Values represent estimated damages in millions of dollars.

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Table with 3 columns: Nonstructural Measure, Estimated Number of Structures*, and Cost. Rows include Floodproofed, Residential Elevated, Voluntary Residential Acquired, and Total.

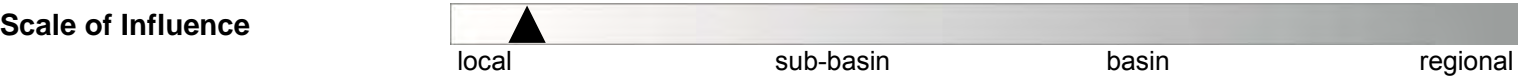


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures in the communities of Slidell, Eden Isle, and Pearl River.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



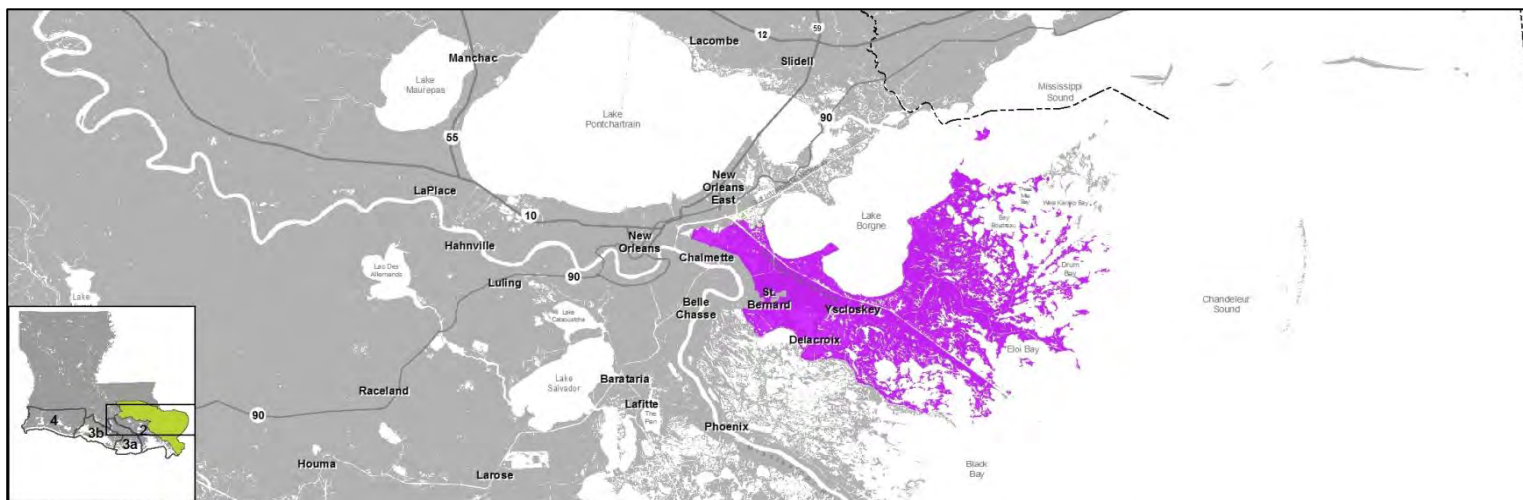
Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$14926M	\$10136M	\$19289M	\$12196M
100 Year Event	\$24913M	\$16379M	\$31980M	\$22618M
500 Year Event	\$47083M	\$38126M	\$51115M	\$42437M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*	Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	860	\$ 622,227,000
	Residential Elevated	10670	\$ 1,906,233,000
	Voluntary Residential Acquired	30	\$ 13,036,000
	Total	11560	\$ 2,541,496,000

Project ID: STB.050.2



Planning Unit 4



Description	Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Saint Bernard Parish.
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Scale of Influence



FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$172M	\$154M	\$174M	\$155M
100 Year Event	\$175M	\$156M	\$229M	\$202M
500 Year Event	\$957M	\$842M	\$947M	\$821M

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	4,390,000
Residential Elevated	190	\$	29,733,000
Voluntary Residential Acquired	170	\$	24,393,000
Total	370	\$	58,516,000

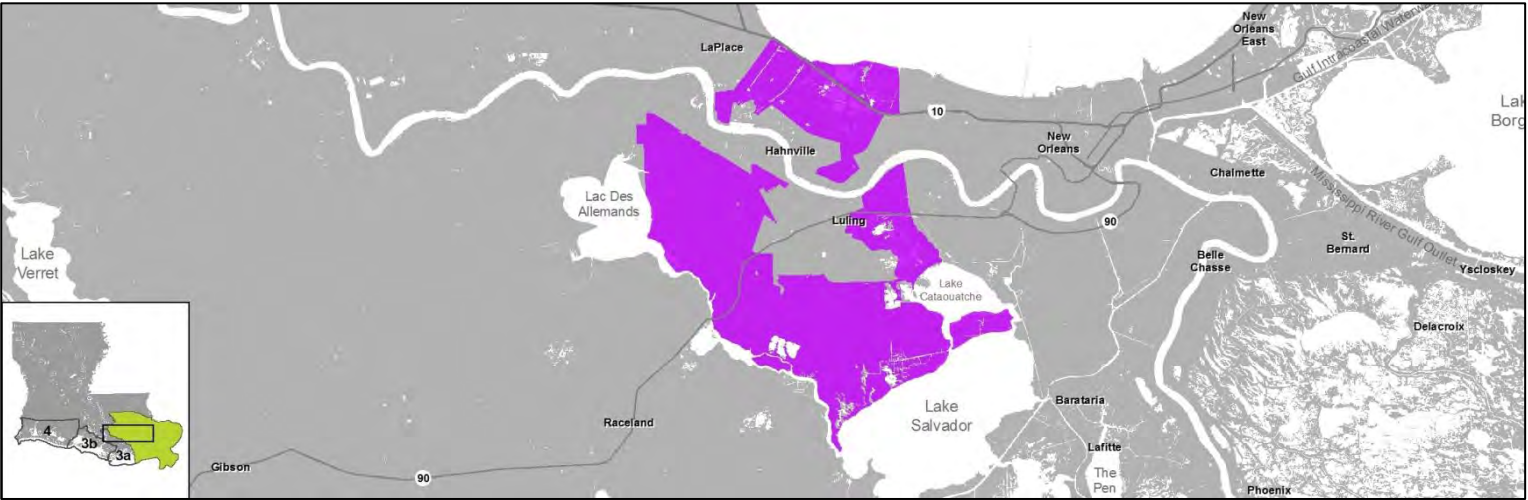
Saint Charles Parish - Rural Areas

Nonstructural BFE + 1

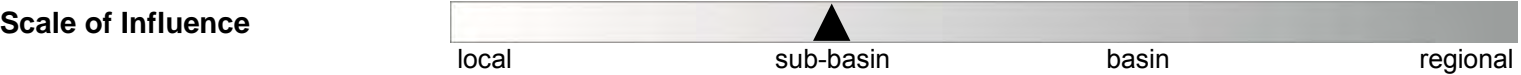
Project ID: STC.050.1



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	<p>Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Saint Charles Parish.</p> <p>Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.</p>



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
	50 Year Event	\$2288M	\$1723M	\$3265M	\$2969M
	100 Year Event	\$2794M	\$2130M	\$3607M	\$3370M
	500 Year Event	\$3341M	\$2772M	\$4138M	\$3870M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	810	\$	53,467,000
	Residential Elevated	970	\$	149,997,000
	Voluntary Residential Acquired	0	\$	-
	Total	1780	\$	203,464,000

Saint Charles Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: STC.050.2



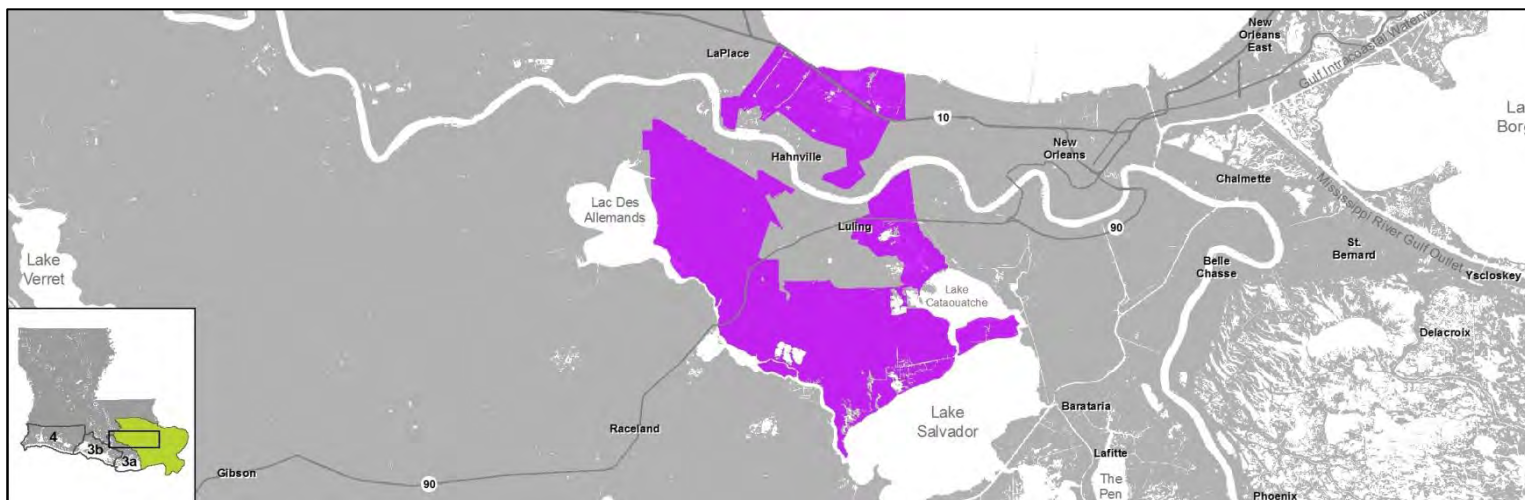
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Saint Charles Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2288M	\$1580M	\$3265M	\$2685M
100 Year Event	\$2794M	\$1925M	\$3607M	\$2929M
500 Year Event	\$3341M	\$2616M	\$4138M	\$3434M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	60	\$	34,376,000	
Residential Elevated	1760	\$	295,568,000	
Voluntary Residential Acquired	0	\$	-	
Total	1820	\$	329,944,000	

Saint James Parish - Rural Areas

Nonstructural BFE + 1

Project ID: STJ.050.1



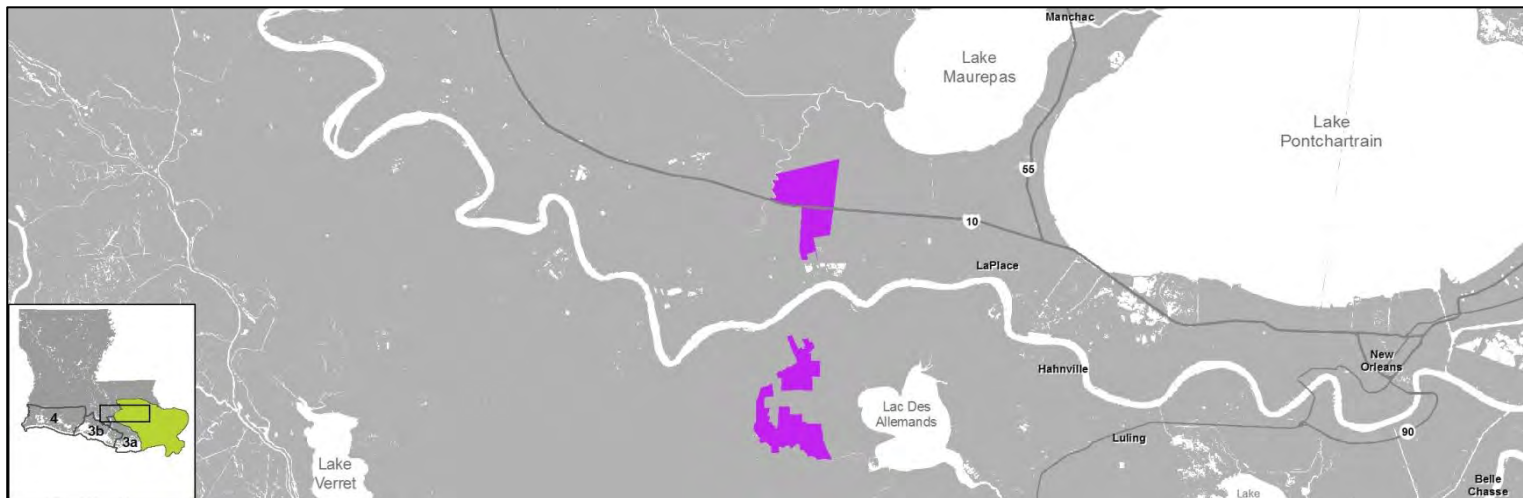
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Commercial and residential floodproofing to 3 feet within rural areas of Saint James Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$49M	\$22M	\$72M	\$46M
100 Year Event	\$69M	\$41M	\$73M	\$46M
500 Year Event	\$72M	\$46M	\$74M	\$47M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	80	\$	2,770,000
Residential Elevated	0	\$	-
Voluntary Residential Acquired	0	\$	-
Total	80	\$	2,770,000

Saint James Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: STJ.050.2



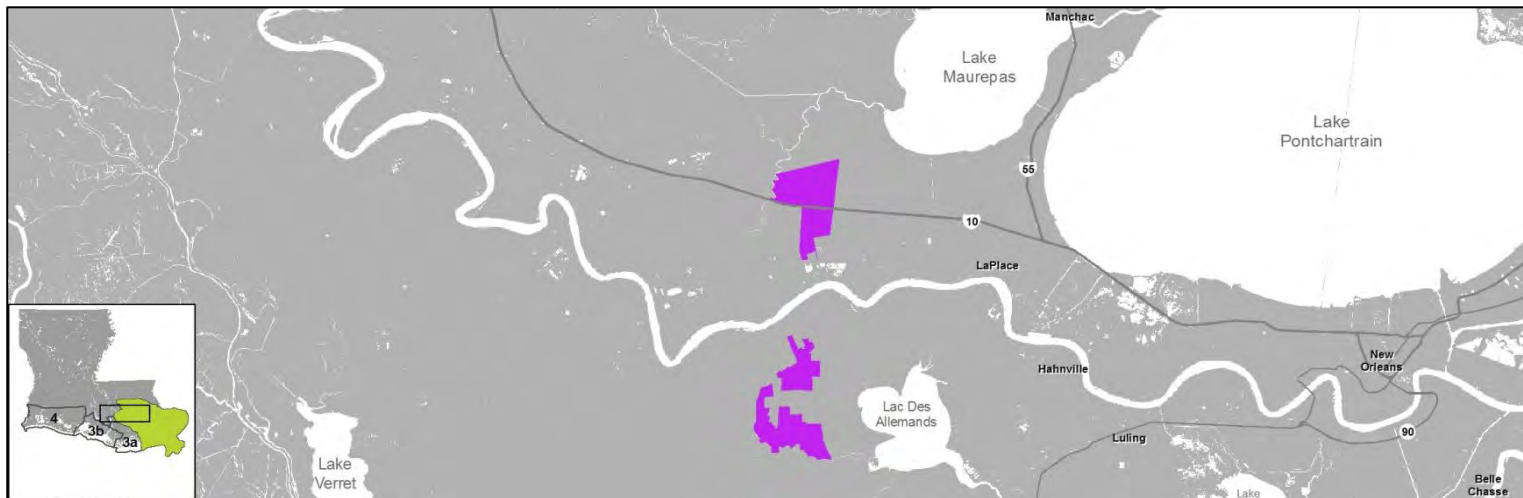
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Saint James Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

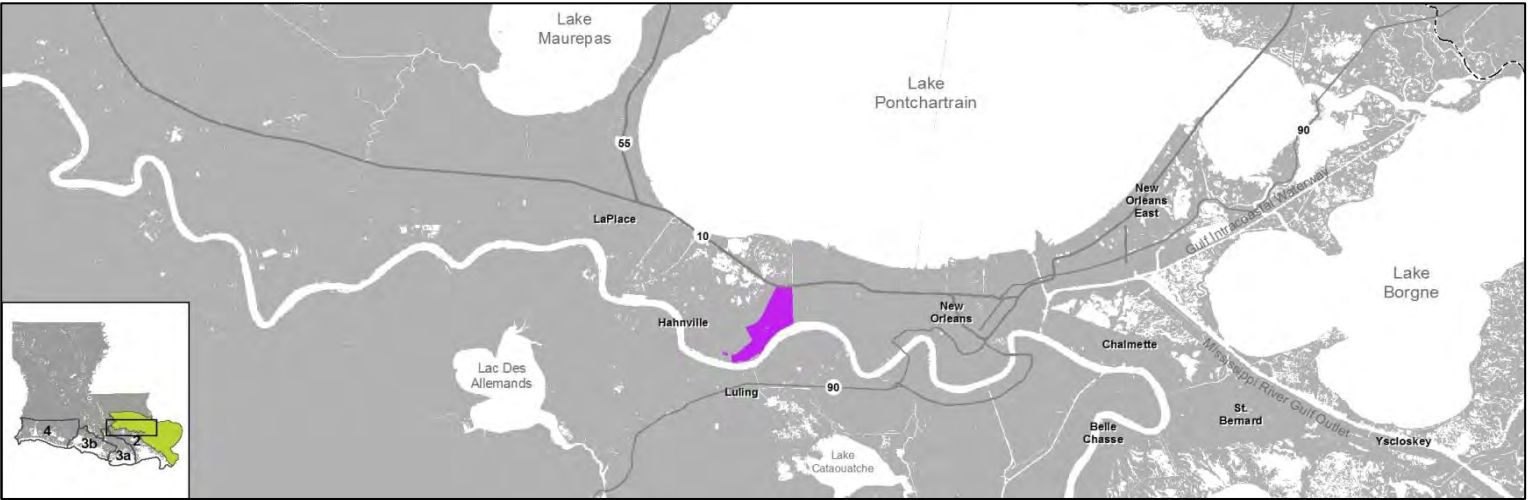
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$49M	\$23M	\$72M	\$45M
100 Year Event	\$69M	\$42M	\$73M	\$46M
500 Year Event	\$72M	\$45M	\$74M	\$47M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	591,000
Residential Elevated	70	\$	10,565,000
Voluntary Residential Acquired	0	\$	-
Total	80	\$	11,156,000

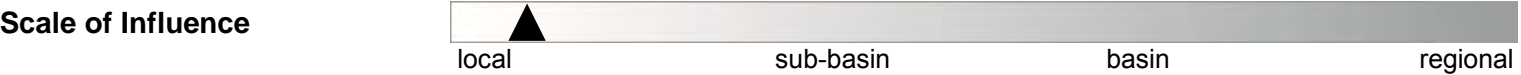


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Saint Rose.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$47M	\$33M	\$2378M	\$2284M
100 Year Event	\$48M	\$34M	\$2951M	\$2876M
500 Year Event	\$3373M	\$3309M	\$3697M	\$3655M

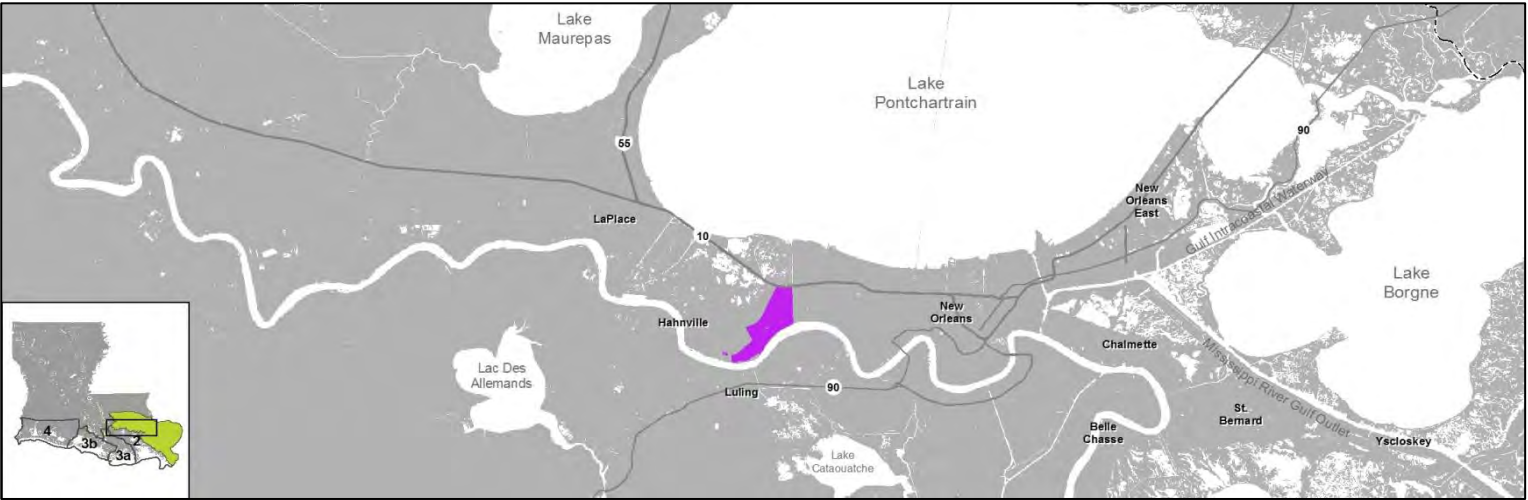
Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	470	\$	42,537,000
	Residential Elevated	20	\$	2,231,000
	Voluntary Residential Acquired	0	\$	-
	Total	490	\$	44,768,000

Saint Rose (High)
Nonstructural BFE + 4

Project ID: STR.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

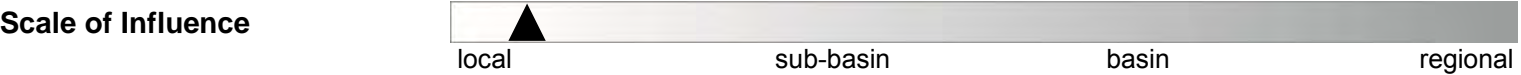


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Saint Rose.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



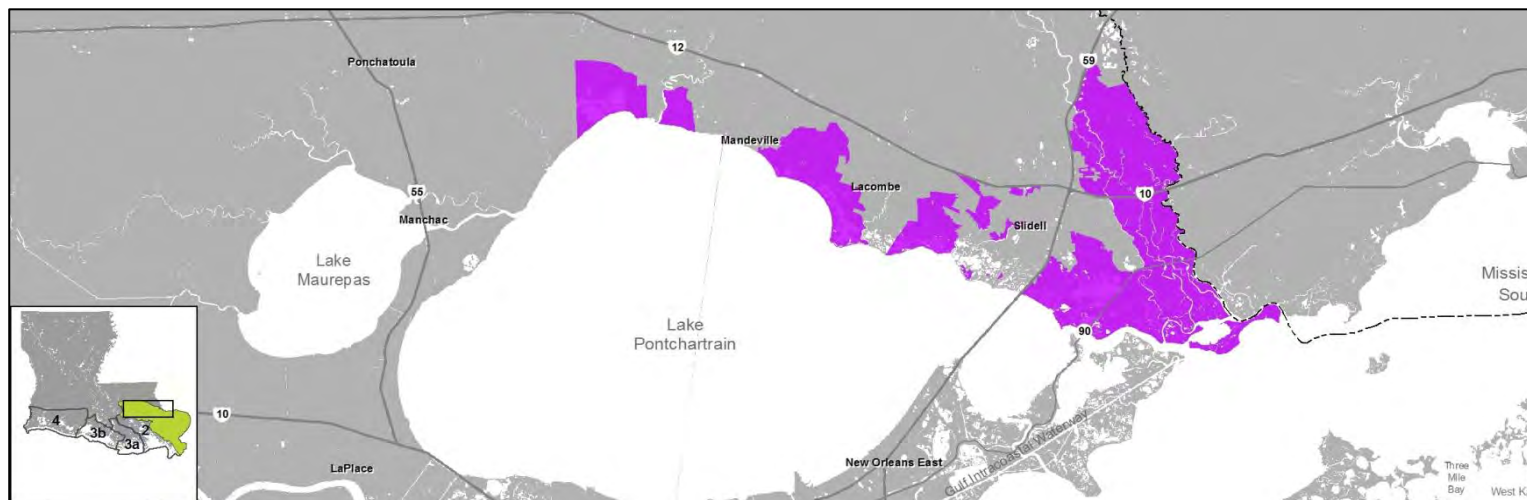
Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$47M	\$33M	\$2378M	\$1941M
100 Year Event	\$48M	\$36M	\$2951M	\$2507M
500 Year Event	\$3373M	\$2926M	\$3697M	\$3255M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	30	\$	27,866,000
	Residential Elevated	930	\$	141,684,000
	Voluntary Residential Acquired	0	\$	-
	Total	960	\$	169,550,000

Project ID: STT.050.1



Planning Unit 4



Description	Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Saint Tammany Parish.
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Scale of Influence

local sub-basin basin regional

Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project					
	50 Year Event	\$1849M	\$1570M	\$2221M	\$1764M
	100 Year Event	\$2518M	\$2074M	\$3478M	\$3069M
	500 Year Event	\$4411M	\$3997M	\$4806M	\$4420M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	480	\$	47,857,000
	Residential Elevated	630	\$	113,346,000
	Voluntary Residential Acquired	10	\$	1,005,000
	Total	1120	\$	162,208,000

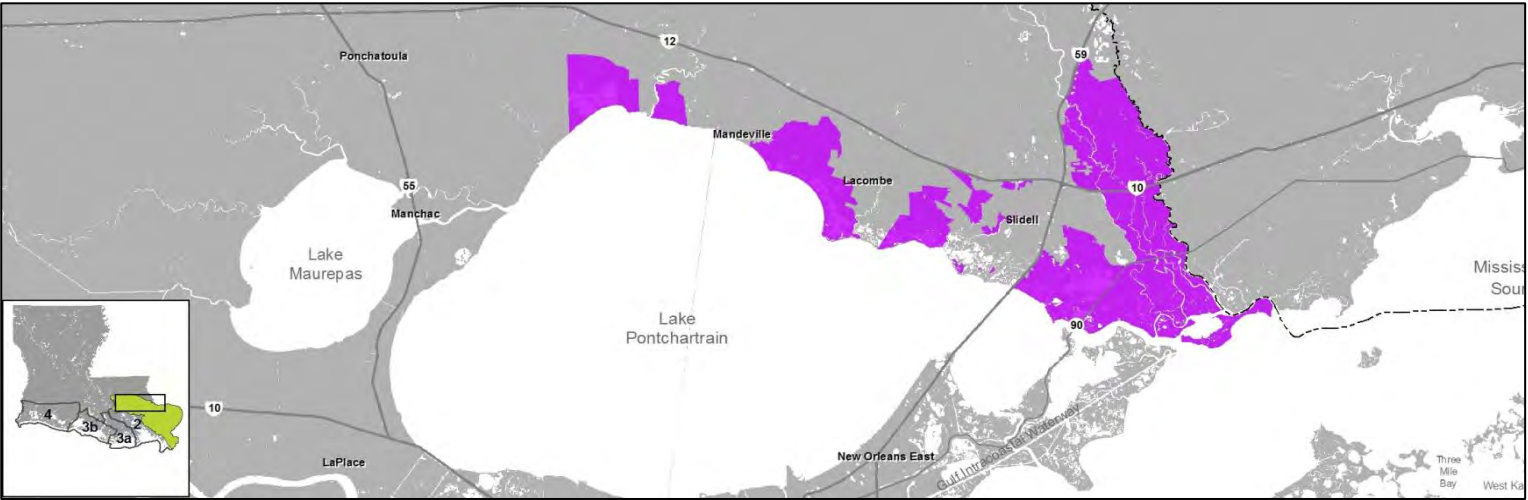
Saint Tammany Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: STT.050.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

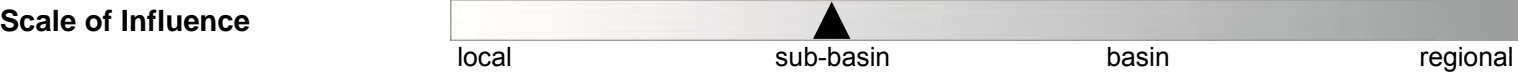
Project Status

Conceptual Phase

Description

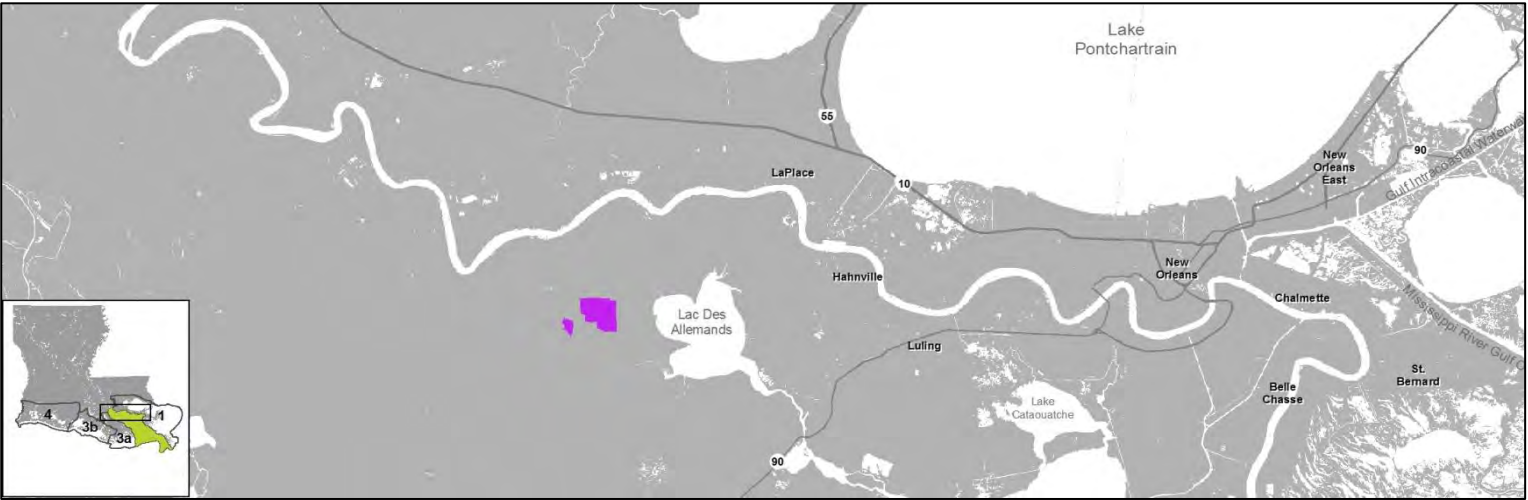
Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Saint Tammany Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project	50 Year Event	\$1849M	\$1561M	\$2221M	\$1749M
	100 Year Event	\$2518M	\$1999M	\$3478M	\$2861M
	500 Year Event	\$4411M	\$3758M	\$4806M	\$4198M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	50	\$	34,856,000
	Residential Elevated	1110	\$	198,458,000
	Voluntary Residential Acquired	50	\$	17,589,000
	Total	1210	\$	250,903,000



Project Source: Developed for the 2012 Coastal Master Plan
Project Status: Conceptual Phase
Description: Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of South Vacherie.
Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal.

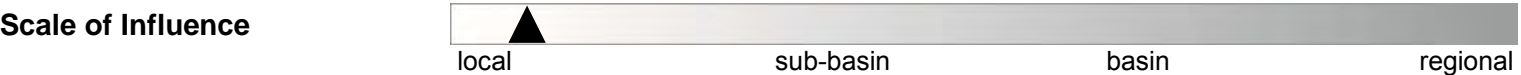


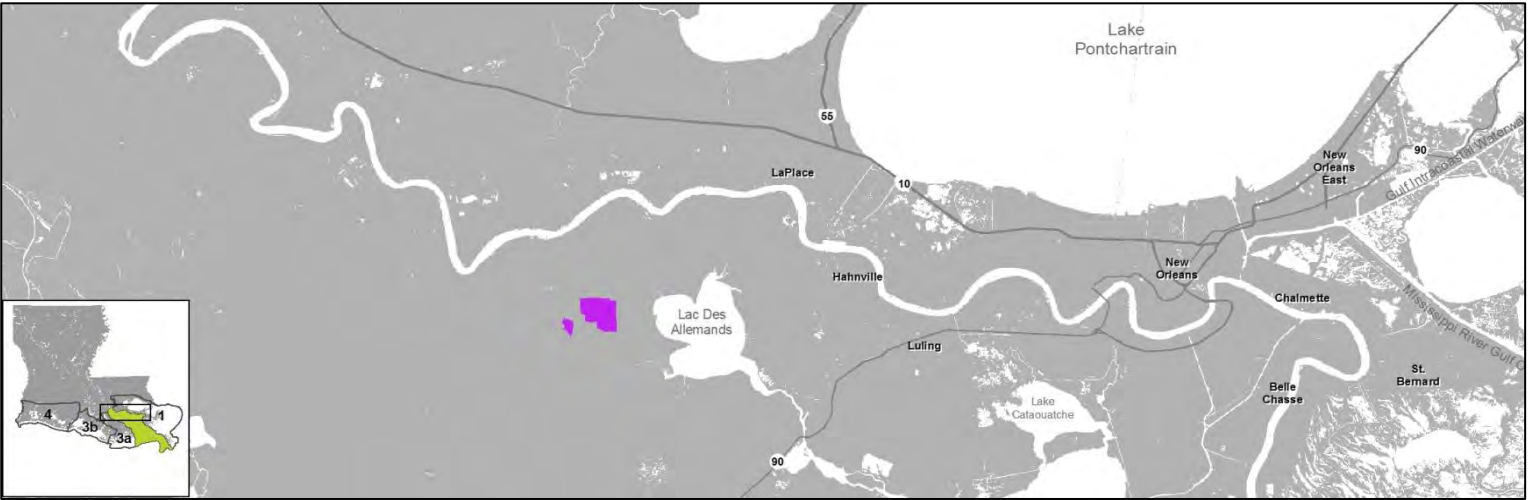
Table with 5 columns: Event Type, Moderate FWOA, Moderate FWP, Less Optimistic FWOA, Less Optimistic FWP. Rows include 50 Year Event, 100 Year Event, and 500 Year Event.

Table with 4 columns: Nonstructural Measure, Estimated Number of Structures*, Cost. Rows include Floodproofed, Residential Elevated, Voluntary Residential Acquired, and Total.

South Vacherie (High)
Nonstructural BFE + 4
Project ID: SVA.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

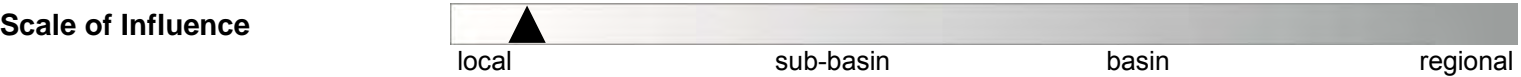


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of South Vacherie.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$328M	\$255M	\$690M	\$603M
100 Year Event	\$613M	\$529M	\$822M	\$727M
500 Year Event	\$767M	\$672M	\$978M	\$882M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	2,655,000
	Residential Elevated	200	\$	32,894,000
	Voluntary Residential Acquired	0	\$	-
	Total	210	\$	35,549,000

Tangipahoa Parish - Rural Areas

Nonstructural BFE + 1

Project ID: TAN.050.1



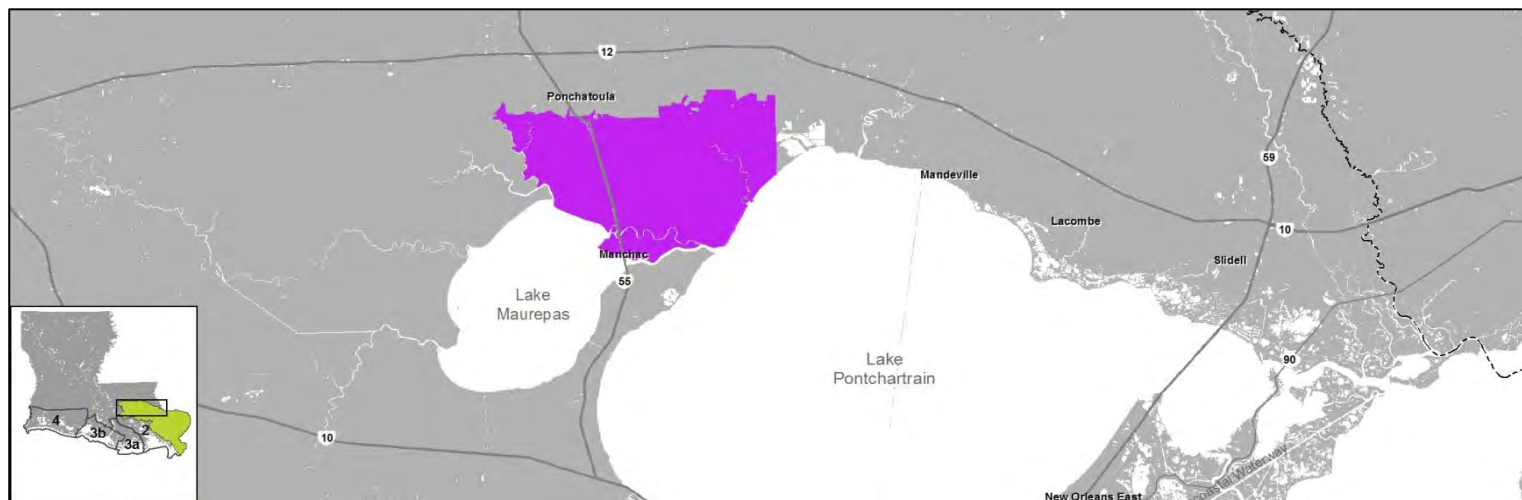
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Tangipahoa Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$771M	\$659M	\$925M	\$851M
100 Year Event	\$930M	\$855M	\$971M	\$928M
500 Year Event	\$990M	\$954M	\$1015M	\$984M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	190	\$	7,734,000
Residential Elevated	400	\$	64,325,000
Voluntary Residential Acquired	0	\$	-
Total	590	\$	72,059,000

Tangipahoa Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: TAN.050.2



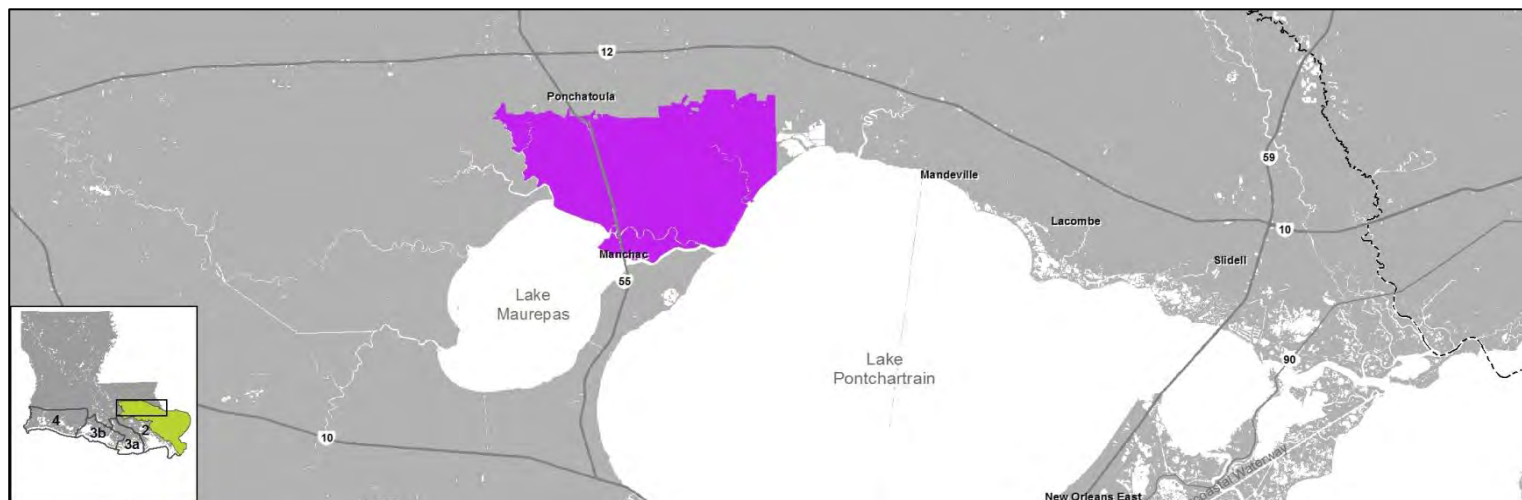
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Tangipahoa Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$771M	\$620M	\$925M	\$789M
100 Year Event	\$930M	\$801M	\$971M	\$877M
500 Year Event	\$990M	\$941M	\$1015M	\$964M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	2,852,000
Residential Elevated	600	\$	99,556,000
Voluntary Residential Acquired	0	\$	-
Total	610	\$	102,408,000

Avondale/Waggaman

Nonstructural BFE + 1

Project ID: WAG.100.1



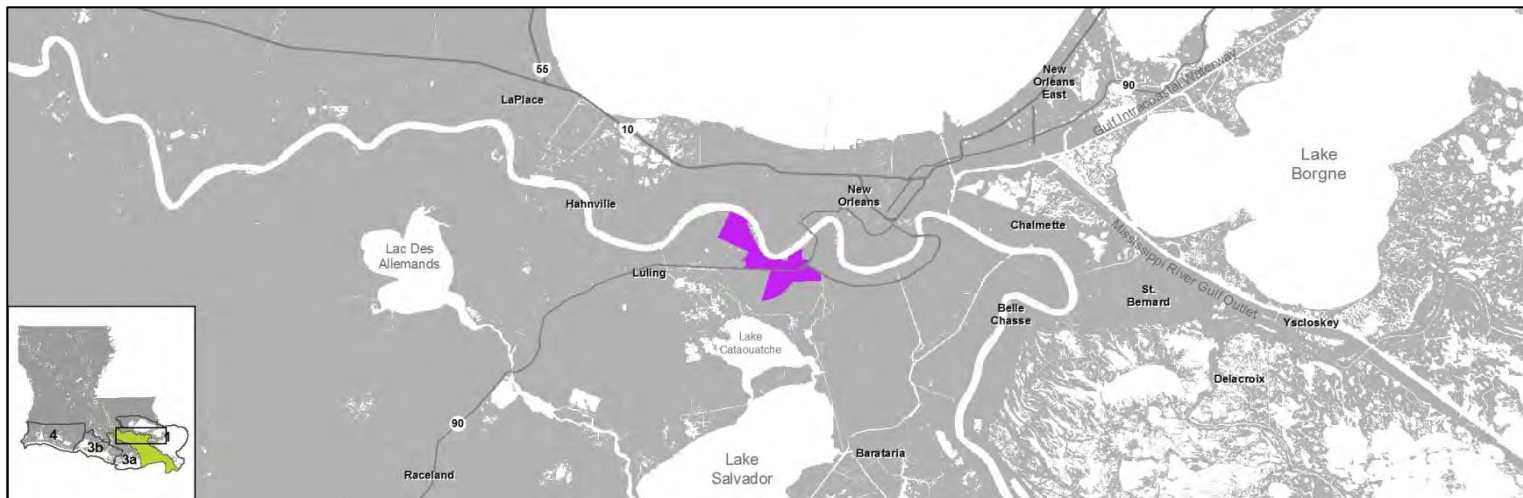
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Avondale and Waggaman.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$4870M	\$4659M
100 Year Event	\$0M	\$0M	\$5238M	\$5022M
500 Year Event	\$1M	\$1M	\$5888M	\$5618M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1650	\$	101,638,000
Residential Elevated	1040	\$	162,066,000
Voluntary Residential Acquired	0	\$	-
Total	2690	\$	263,704,000

Avondale/Waggaman (High)

Nonstructural BFE + 4

Project ID: WAG.100.2



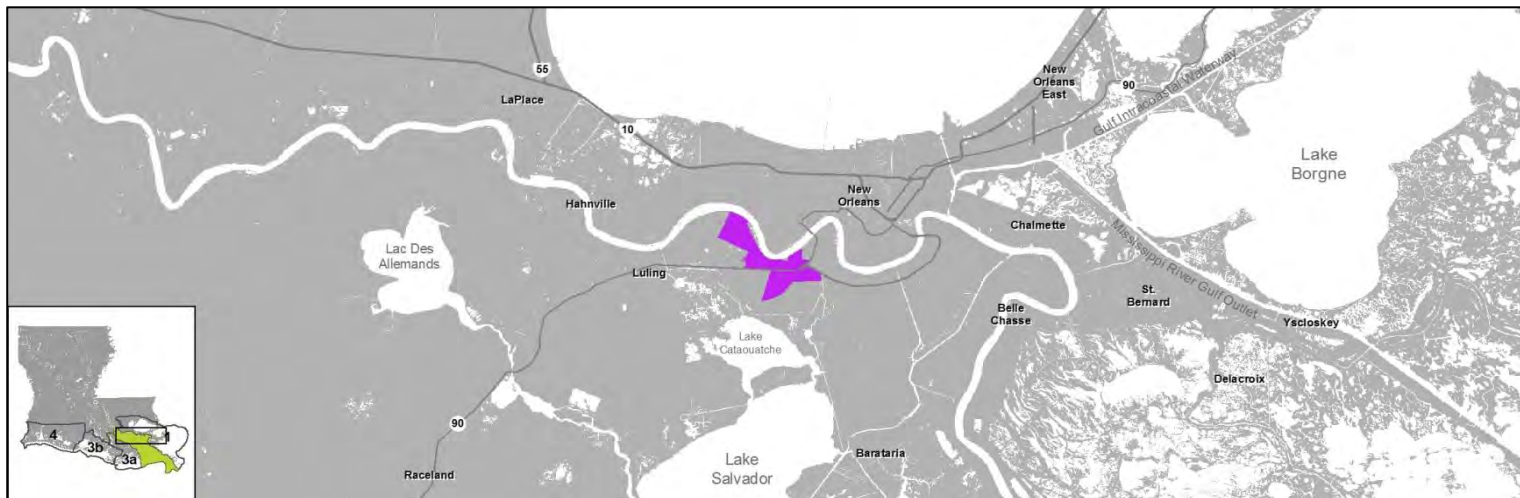
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Avondale and Waggaman.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$4870M	\$4091M
100 Year Event	\$0M	\$0M	\$5238M	\$4432M
500 Year Event	\$1M	\$1M	\$5888M	\$5000M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	80	\$ 47,542,000
Residential Elevated	3040	\$ 483,939,000
Voluntary Residential Acquired	0	\$ -
Total	3120	\$ 531,481,000

West Bank Jefferson Parish

Nonstructural BFE + 1

Project ID: WBK.500.1



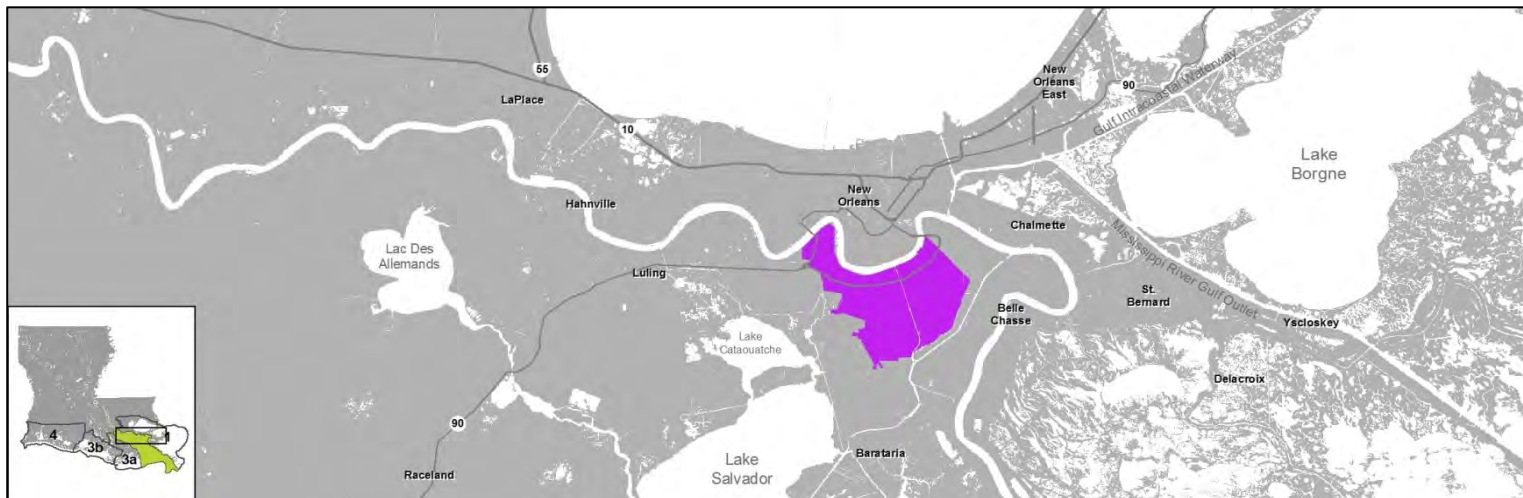
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Gretna, Westwego, Bridge City, Estelle, Harvey, Marrero, Terrytown, Timberlane, and Woodmere.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$397M	\$396M	\$110885M	\$107125M
100 Year Event	\$399M	\$398M	\$111721M	\$108526M
500 Year Event	\$408M	\$404M	\$112734M	\$110358M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	16860	\$ 1,858,331,000
Residential Elevated	16020	\$ 2,609,697,000
Voluntary Residential Acquired	0	\$ -
Total	32880	\$ 4,468,028,000

West Bank Jefferson Parish (High)

Nonstructural BFE + 4

Project ID: WBK.500.2



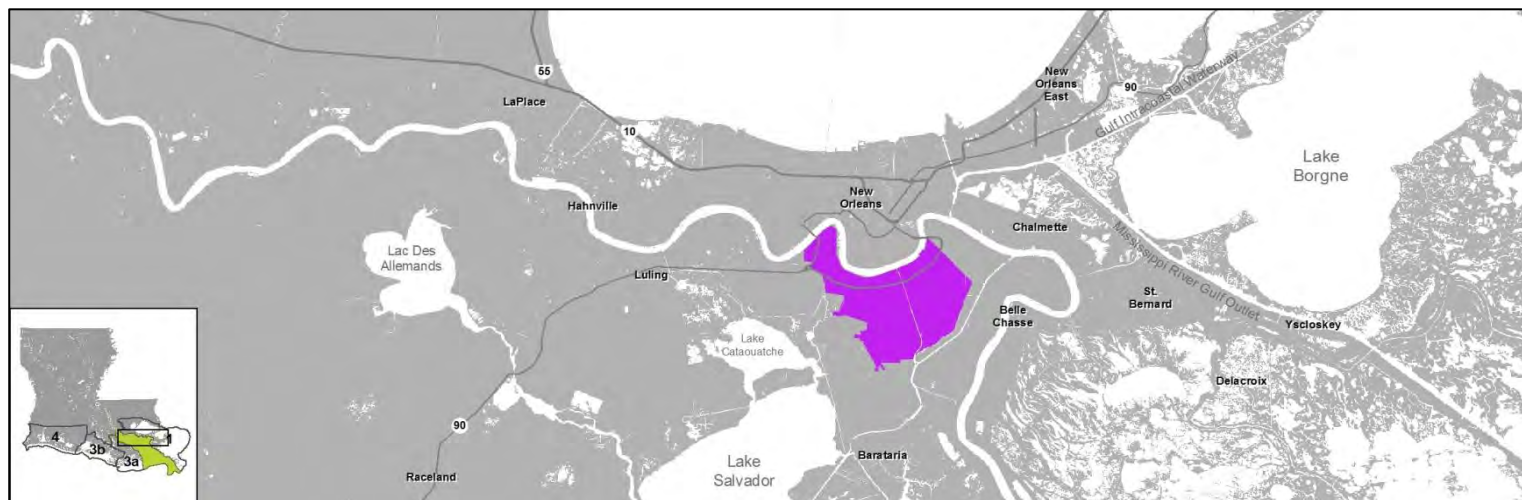
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Gretna, Westwego, Bridge City, Estelle, Harvey, Marrero, Terrytown, Timberlane, and Woodmere.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$397M	\$343M	\$110885M	\$89868M
100 Year Event	\$399M	\$345M	\$111721M	\$90691M
500 Year Event	\$408M	\$352M	\$112734M	\$92048M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	2210	\$ 1,357,343,000
Residential Elevated	33700	\$ 5,585,474,000
Voluntary Residential Acquired	0	\$ -
Total	35910	\$ 6,942,817,000

Isles Dernieres

Barrier Island/Headland Restoration

Project ID: 03a.BH.03

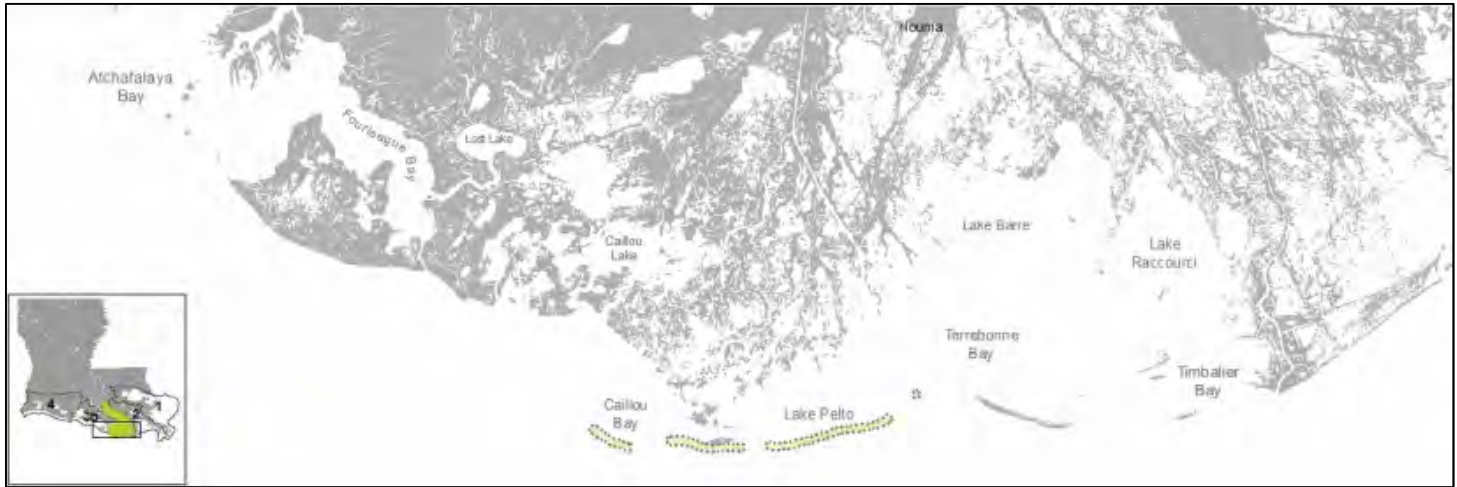


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b



Project Source

LACPR, LCA

Project Status

Conceptual Phase/Engineering and Design

Description

Restoration of the Isles Dernieres barrier islands to provide dune, beach, and back barrier marsh habitat and to provide storm surge and wave attenuation in the Terrebonne Basin.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1789 ac	1813 ac
Long Term (Year 50)	1916 ac	2010 ac

Project Cost Estimate

Planning/Engineering & Design	\$	25,010,000
Estimated Cost Construction	\$	312,655,000
Operations & Maintenance (50 years)	\$	6,110,000
Total	\$	343,775,000

Timbalier Islands

Barrier Island/Headland Restoration

Project ID: 03a.BH.04

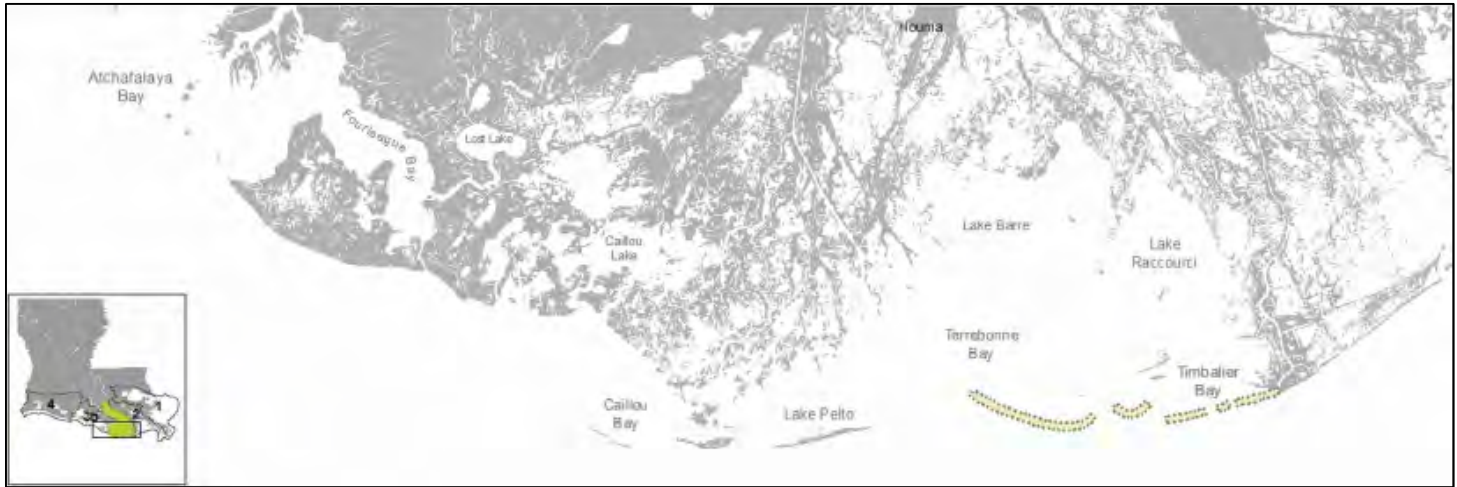


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b



Project Source

LACPR, LCA

Project Status

Conceptual Phase/Engineering and Design

Description

Restoration of the Timbalier barrier islands to provide dune, beach, and back barrier marsh habitat and to provide storm surge and wave attenuation in the Terrebonne Basin.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3190 ac	3208 ac
Long Term (Year 50)	3275 ac	3321 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 38,430,000
Estimated Cost Construction	\$ 480,394,000
Operations & Maintenance (50 years)	\$ 6,280,000
Total	\$ 525,104,000

Atchafalaya River (150,000 cfs)

Sediment Diversion

Project ID: 03a.DI.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion of the Atchafalaya River into or to benefit Penchant and southwest Terrebonne marshes, 150,000 cfs capacity (modeled at 60% of southward Atchafalaya flow exceeding 50,000 cfs).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	10387 ac	14801 ac
Long Term (Year 50)	21806 ac	61349 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 50,220,000
Estimated Cost Construction	\$ 627,794,000
Operations & Maintenance (50 years)	\$ 125,560,000
Total	\$ 803,574,000

Increase Atchafalaya Flow to Eastern Terrebonne

Sediment Diversion

Project ID: 03b.DI.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup, LCA

Project Status

Conceptual Phase/Engineering and Design

Description

Dredging of the GIWW east of the Atchafalaya (average channel depth of -25 feet NAVD88 extending 161,000 feet east of the Atchafalaya) and installation of a bypass structure at the Bayou Boeuf Lock to increase freshwater and sediment flows from Atchafalaya River to Terrebonne marshes (modeled to maintain a minimum of 20,000 cfs east along the GIWW towards the HNC).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	-1132 ac	-100 ac
Long Term (Year 50)	8295 ac	17190 ac

Project Cost Estimate

Planning/Engineering & Design	\$	18,120,000
Estimated Cost Construction	\$	226,475,000
Operations & Maintenance (50 years)	\$	54,350,000
Total	\$	298,945,000

Central Terrebonne

Hydrologic Restoration

Project ID: 03a.HR.02



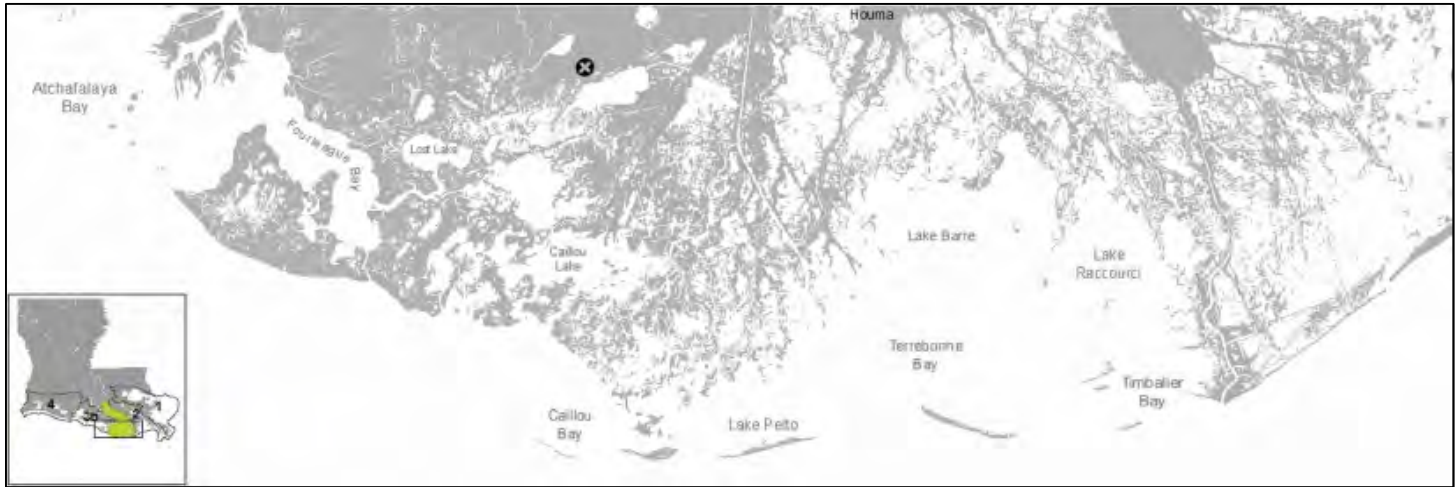
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Modification of structure on Liners Canal to improve freshwater flow to Lake Decade and installation of a structure in Grand Pass to restrict the opening to Lake Mechant.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	567 ac	969 ac
Long Term (Year 50)	1148 ac	1420 ac

Project Cost Estimate

Planning/Engineering & Design	\$	940,000
Estimated Cost Construction	\$	11,702,000
Operations & Maintenance (50 years)	\$	1,660,000
Total	\$	14,302,000

Chacahoula Basin

Hydrologic Restoration

Project ID: 03a.HR.04



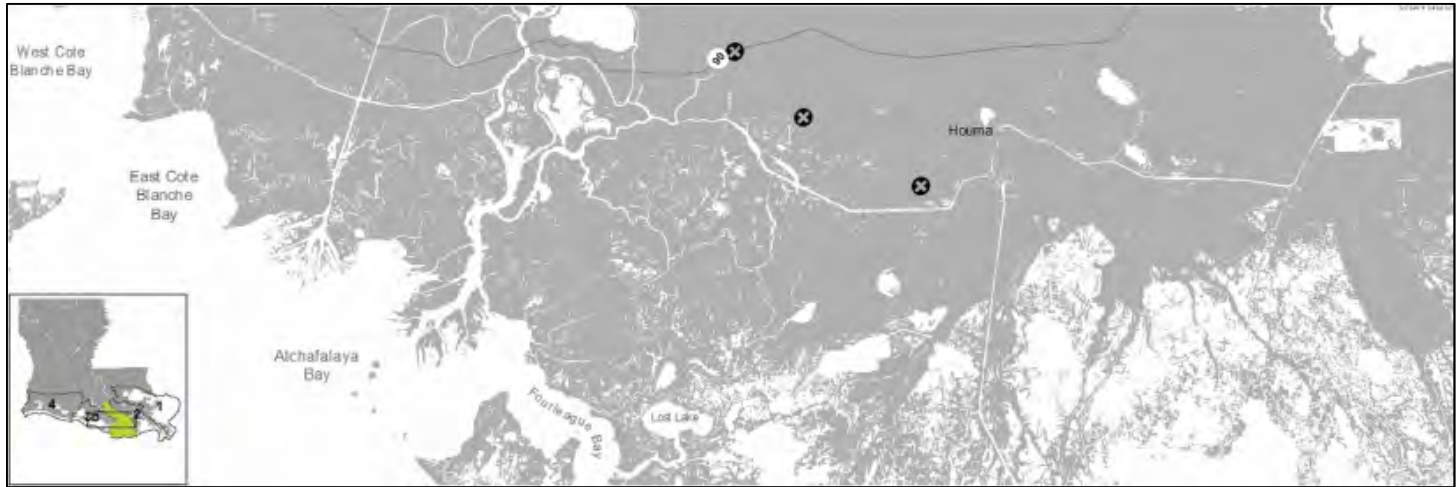
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Installation of three water control structures (culverts) to increase hydraulic connectivity in the Chacahoula Basin on either side of Highway 182.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	0 ac	5 ac
Long Term (Year 50)	2 ac	113 ac

Project Cost Estimate

Planning/Engineering & Design	\$	450,000
Estimated Cost Construction	\$	5,683,000
Operations & Maintenance (50 years)	\$	1,020,000
Total	\$	7,153,000

HNC Lock

Hydrologic Restoration

Project ID: 03a.HR.10



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

LCA

Project Status

Engineering and Design

Description

Construction of a lock on the Houma Navigation Canal and operation to reduce saltwater intrusion and distribute freshwater to the surrounding wetlands. NOTE: Project is to be constructed as a component of the Morganza to the Gulf hurricane protection project (03a.HR.02b). Costs associated with this project include planning, engineering, and design and operational costs to operate the lock for restoration purposes.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

-2100 ac

-1752 ac

Long Term (Year 50)

319 ac

3452 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 40,000,000

Estimated Cost Construction

\$ -

Operations & Maintenance (50 years)

\$ 160,000,000

Total**\$ 200,000,000**

Terrebonne Bay Rim Study

Marsh Creation

Project ID: 03a.MC.03p



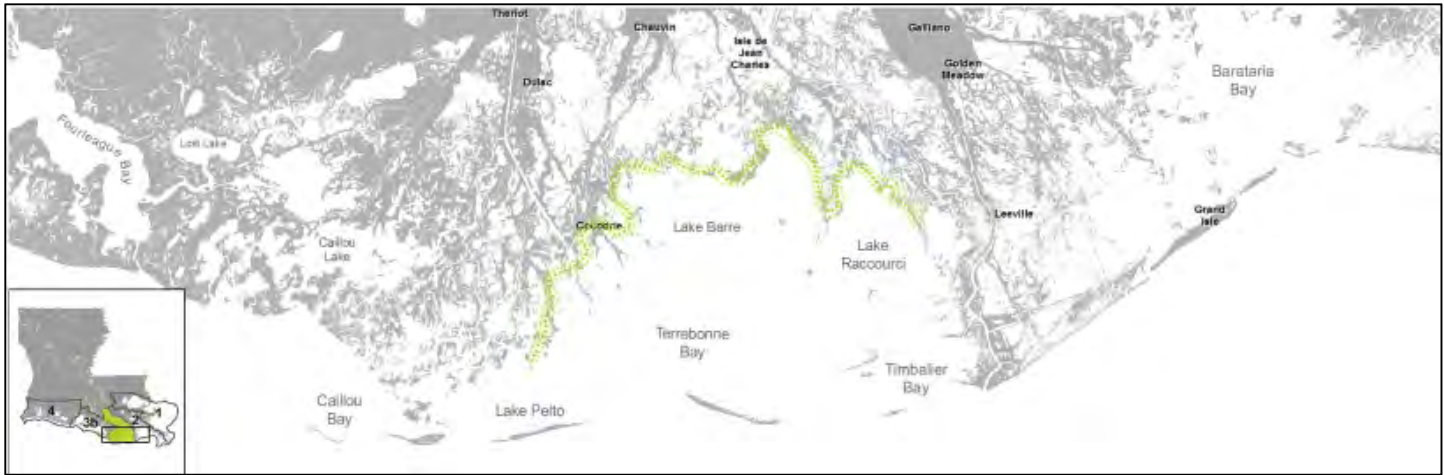
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Planning, engineering, and design to develop marsh creation along the northern rim of Terrebonne Bay (approximately 3,370 acres).

Scale of Influence



Land Area

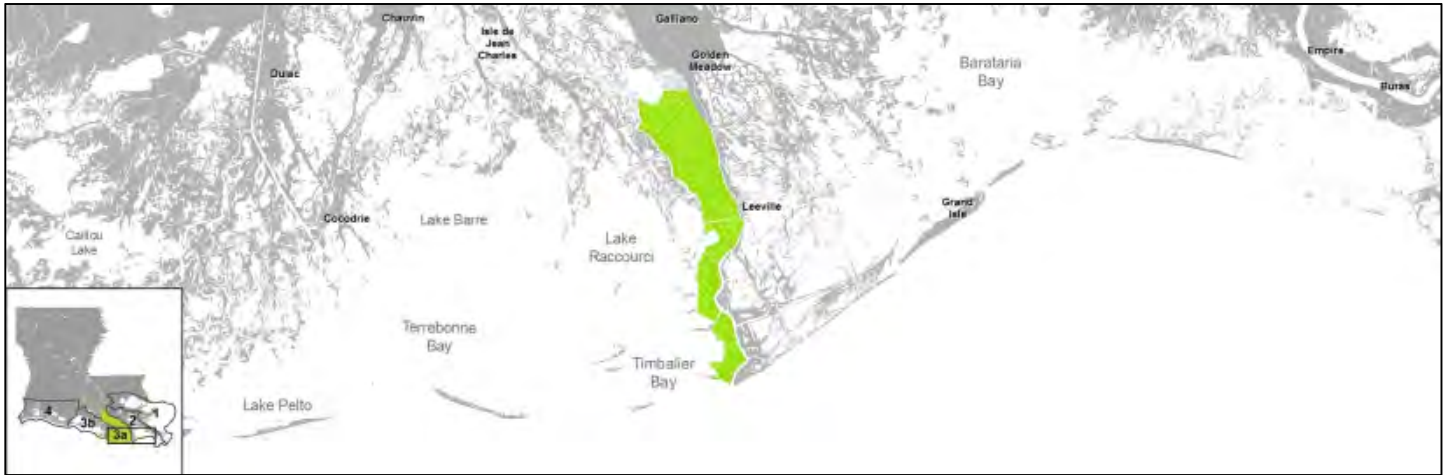
	Moderate	Less Optimistic
Near Term (Year 20)	N/A	N/A
Long Term (Year 50)	N/A	N/A

Project Cost Estimate

Planning/Engineering & Design	\$	90,620,000
Estimated Cost Construction	\$	-
Operations & Maintenance (50 years)	\$	-
Total	\$	90,620,000



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 14,420 acres from Belle Pass to Golden Meadow (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion. Project design could develop marsh creation on the east and west sides of LA Highway 1. NOTE: Project involves components to be constructed in 1st and 2nd Implementation Periods.



Less Optimistic

13939 ac

2994 ac

\$ 247,100,000

\$ 3,375,942,000

\$ 46,500,000

\$ 3,669,542,000

North Terrebonne Bay- Component B

Marsh Creation

Project ID: 03a.MC.09b



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 4,940 acres of marsh south of Montegut between Bayou St. Jean Charles and Bayou Pointe au Chien (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.09).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	4524 ac	4523 ac
Long Term (Year 50)	4533 ac	127 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 114,570,000
Estimated Cost Construction	\$ 1,426,560,000
Operations & Maintenance (50 years)	\$ 15,850,000
Total	\$ 1,556,980,000

North Lost Lake Marsh Creation

Project ID: 03b.CO.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Creation of approximately 850 acres of marsh between Lake Pagie and Bayou Decade (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	923 ac	958 ac
Long Term (Year 50)	697 ac	146 ac

Project Cost Estimate

Planning/Engineering & Design	\$	9,460,000
Estimated Cost Construction	\$	113,576,000
Operations & Maintenance (50 years)	\$	1,950,000
Total	\$	124,986,000

Terrebonne GIWW Marsh Creation

Project ID: 03b.MC.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 1,190 acres of marsh along the GIWW in Terrebonne Basin (through sediment dredging of the GIWW and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	1241 ac	1256 ac
Long Term (Year 50)	1210 ac	1230 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,530,000
Estimated Cost Construction	\$	30,313,000
Operations & Maintenance (50 years)	\$	4,270,000
Total	\$	37,113,000

West Cote Blanche Bay

Oyster Barrier Reef

Project ID: 03b.OR.02



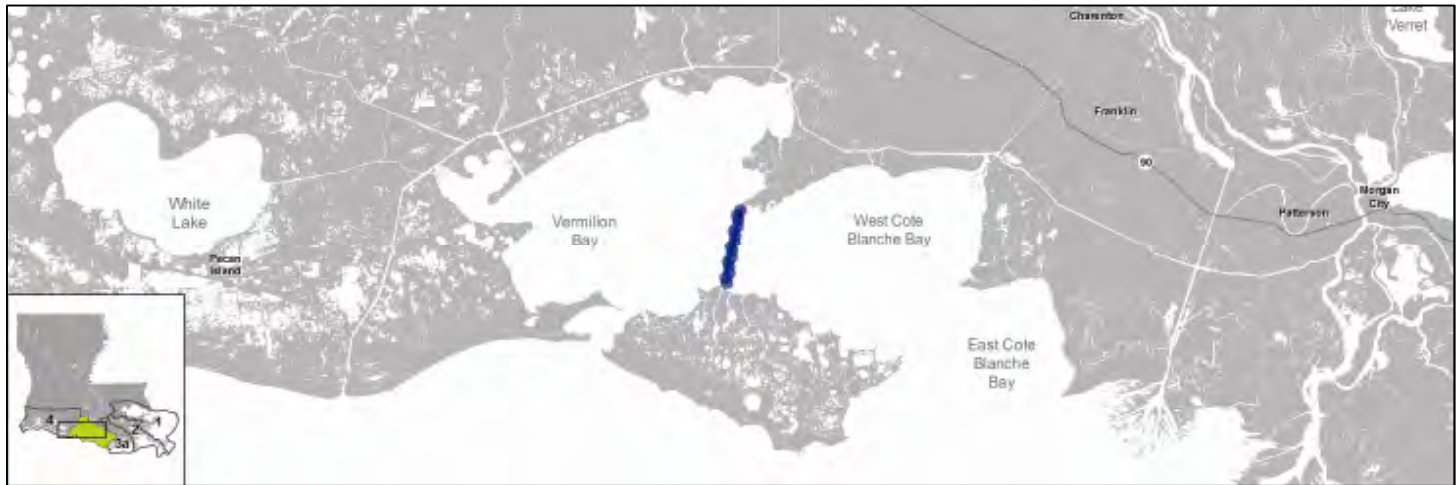
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Creation of approximately 28,000 feet of oyster barrier reef in West Cote Blanche Bay from Dead Cypress Point (near Cypremort Point) to near Bayou Michael (NW corner of Marsh Island) to provide oyster habitat, reduce wave erosion, and prevent further marsh degradation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	140 ac	163 ac
Long Term (Year 50)	106 ac	1235 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,450,000
Estimated Cost Construction	\$	18,142,000
Operations & Maintenance (50 years)	\$	730,000
Total	\$	20,322,000

East Cote Blanche Bay

Oyster Barrier Reef

Project ID: 03b.OR.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Creation of approximately 30,000 feet of oyster barrier reef in East Cote Blanche Bay from Marone Point to Lake Point (NE corner of Marsh Island) to provide oyster habitat, reduce wave erosion, and prevent further marsh degradation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	225 ac	240 ac
Long Term (Year 50)	186 ac	511 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,560,000
Estimated Cost Construction	\$	19,486,000
Operations & Maintenance (50 years)	\$	780,000
Total	\$	21,826,000

Bayou DeCade

Ridge Restoration

Project ID: 03a.RC.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a**Planning Unit 3b**

Planning Unit 4



Project Source

Terrebonne Parish Master Plan

Project Status

Conceptual Phase

Description

Restoration of approximately 47,000 feet (110 acres) of historic ridge along Bayou DeCade from Lake Decade to Raccourci Bay (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	284 ac	300 ac
Long Term (Year 50)	336 ac	272 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,310,000
Estimated Cost Construction	\$	28,871,000
Operations & Maintenance (50 years)	\$	7,860,000
Total	\$	39,041,000

Bayou DuLarge

Ridge Restoration

Project ID: 03a.RC.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a**Planning Unit 3b**

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 106,000 feet (240 acres) of historic ridge along Bayou DuLarge (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	329 ac	360 ac
Long Term (Year 50)	329 ac	460 ac

Project Cost Estimate

Planning/Engineering & Design	\$	3,350,000
Estimated Cost Construction	\$	41,854,000
Operations & Maintenance (50 years)	\$	11,710,000
Total	\$	56,914,000

Small Bayou LaPointe

Ridge Restoration

Project ID: 03a.RC.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 55,000 feet (130 acres) of historic ridge along Small Bayou LaPointe (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	76 ac	171 ac
Long Term (Year 50)	419 ac	445 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,760,000
Estimated Cost Construction	\$	22,018,000
Operations & Maintenance (50 years)	\$	6,070,000
Total	\$	29,848,000

Mauvais Bois Ridge Restoration

Project ID: 03a.RC.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 60,000 feet (140 acres) of historic ridge at Mauvais Bois (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	199 ac	346 ac
Long Term (Year 50)	475 ac	691 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,200,000
Estimated Cost Construction	\$	27,488,000
Operations & Maintenance (50 years)	\$	7,570,000
Total	\$	37,258,000

Bayou Terrebonne

Ridge Restoration

Project ID: 03a.RC.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 55,000 feet (130 acres) of historic ridge along the southern portions of Bayou Terrebonne (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	415 ac	419 ac
Long Term (Year 50)	409 ac	475 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,310,000
Estimated Cost Construction	\$	28,823,000
Operations & Maintenance (50 years)	\$	7,890,000
Total	\$	39,023,000

Bayou Pointe au Chien

Ridge Restoration

Project ID: 03a.RC.06



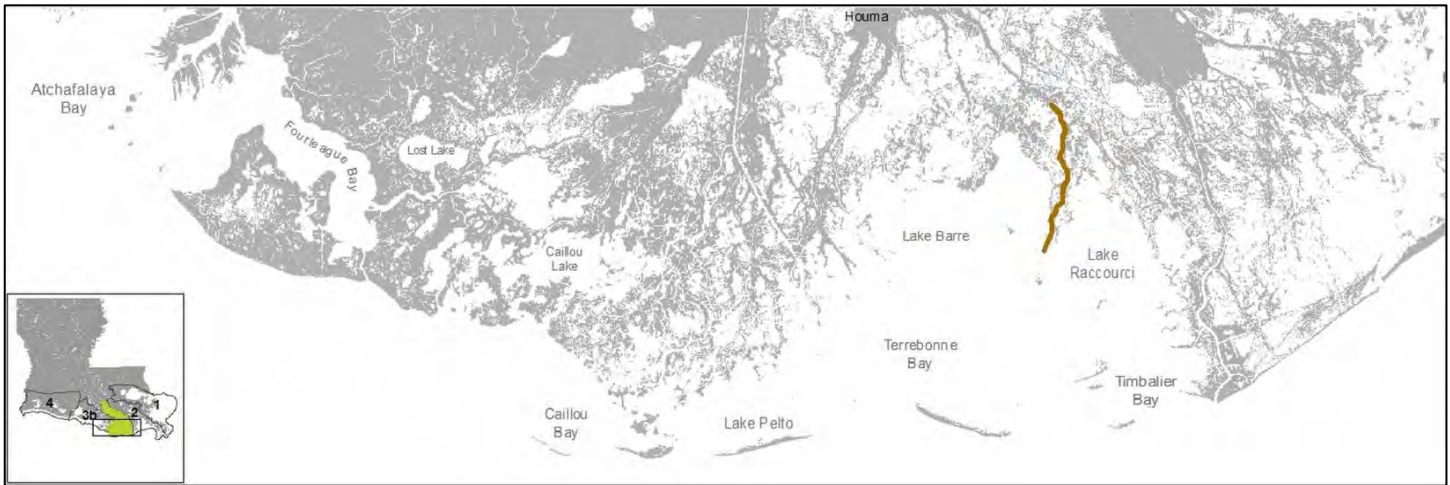
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Restoration of approximately 57,000 feet (130 acres) of historic ridge along the southern portions of Bayou Pointe au Chien (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

212 ac

212 ac

Long Term (Year 50)

196 ac

276 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 1,780,000

Estimated Cost Construction

\$ 22,247,000

Operations & Maintenance (50 years)

\$ 6,150,000

Total**\$ 30,177,000**

Bayou Sale Ridge Restoration

Project ID: 03b.RC.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

CWPPRA

Project Status

Engineering and Design

Description

Restoration of approximately 36,000 feet (80 acres) of historic ridge along Bayou Sale (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

176 ac

182 ac

Long Term (Year 50)

169 ac

170 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 1,340,000

Estimated Cost Construction

\$ 16,777,000

Operations & Maintenance (50 years)

\$ 4,550,000

Total**\$ 22,667,000**

Vermilion Bay and West Cote Blanche Bay (Critical Areas)**Shoreline Protection**

Project ID: 03b.SP.06a



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 83,000 feet of shoreline along Vermilion Bay and West Cote Blanche Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion (critical areas only).

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

219 ac

236 ac

Long Term (Year 50)

199 ac

212 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 4,570,000

Estimated Cost Construction

\$ 57,173,000

Operations & Maintenance (50 years)

\$ 27,930,000

Total**\$ 89,673,000**

GIWW (Intracoastal City to Amelia)

Shoreline Protection

Project ID: 03b.SP.09



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Shoreline protection of approximately 690,000 feet of GIWW shoreline between Intracoastal City and Amelia to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	575 ac	578 ac
Long Term (Year 50)	557 ac	586 ac

Project Cost Estimate

Planning/Engineering & Design	\$	40,050,000
Estimated Cost Construction	\$	500,663,000
Operations & Maintenance (50 years)	\$	244,280,000
Total	\$	784,993,000

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Morganza to the Gulf (High)

Structural Protection

Project ID: 03a.HP.02b



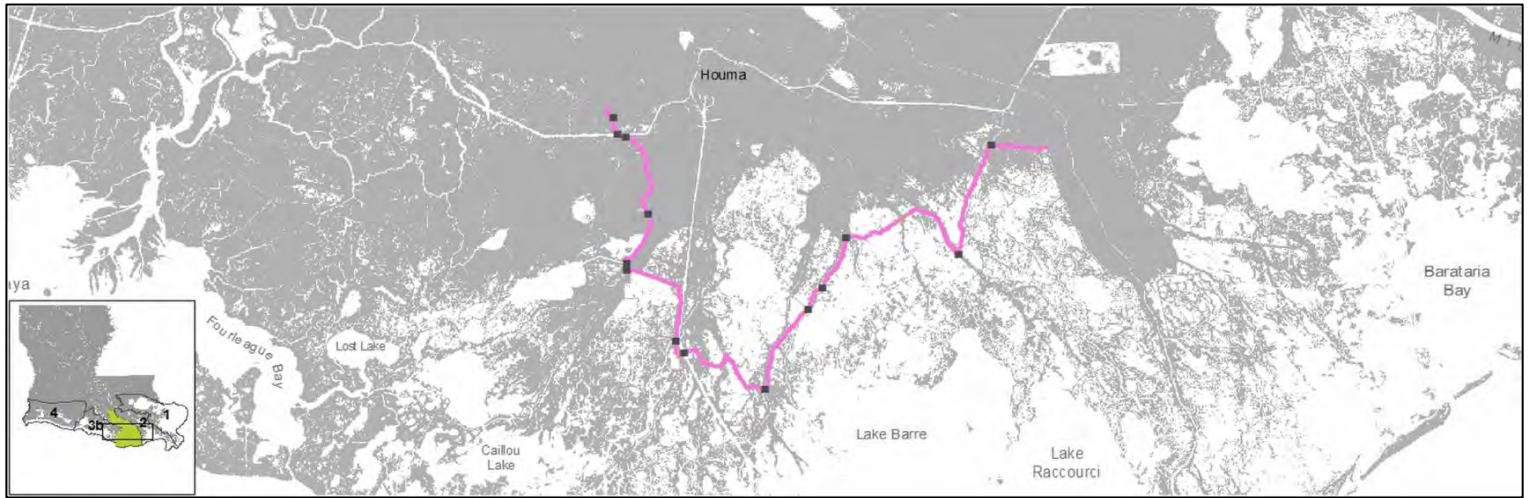
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

WRDA Project, State Surplus

Project Status

Planning and Feasibility

Description

Construction of a levee to an elevation of 19.6-36.5 feet NAVD88 around Houma and the Terrebonne ridge communities between Larose and Humphreys for hurricane storm surge risk reduction. Project features include approximately 319,000 feet of levee, 19,000 feet of concrete T-wall, four 56-foot sector gates, eight 110-foot barge gates, two 220-foot barge gates, and a lock complex on the Houma Navigation Canal.

Scale of Influence



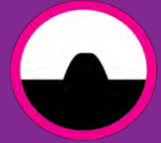
Project Cost Estimate:

Planning / Engineering & Design	\$	279,490,000
Estimated Cost Construction	\$	3,436,000,000
Operations & Maintenance (50 Years)	\$	288,500,000
Total	\$	4,003,990,000

Morganza to the Gulf (High)

Structural Protection

Project ID: 03a.HP.02b



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for all the communities listed below except Larose for all three storm surge events under both scenarios. Model results indicate the project could lead to elevated water levels in Larose if no further upgrades are made to the Larose to Golden Meadow Protection System. This will be further evaluated in the design phase.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Bayou Blue	\$1,328M	\$682M	\$1,794M	\$979M	\$2,101M	\$1,194M
Houma	\$20,401M	\$3,356M	\$30,642M	\$4,590M	\$46,016M	\$10,226M
Lafourche Parish	\$4,420M	\$3,472M	\$5,343M	\$4,168M	\$5,949M	\$4,809M
Larose	\$11,081M	\$11,061M	\$12,117M	\$13,406M	\$14,076M	\$15,086M
Mathews	\$6,143M	\$3,001M	\$6,703M	\$3,709M	\$7,542M	\$4,697M
Raceland	\$3,152M	\$983M	\$3,995M	\$1,332M	\$4,848M	\$2,087M
Terrebonne Parish	\$11,146M	\$7,163M	\$14,279M	\$9,526M	\$18,032M	\$12,971M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Bayou Blue	\$1,971M	\$1,101M	\$2,183M	\$1,285M	\$2,298M	\$1,666M
Houma	\$41,492M	\$13,202M	\$55,841M	\$19,372M	\$61,983M	\$33,515M
Lafourche Parish	\$6,152M	\$5,041M	\$6,561M	\$5,604M	\$6,932M	\$6,081M
Larose	\$11,314M	\$11,337M	\$12,086M	\$13,516M	\$13,983M	\$15,090M
Mathews	\$7,060M	\$4,403M	\$7,555M	\$5,320M	\$7,917M	\$5,957M
Raceland	\$4,615M	\$2,648M	\$4,995M	\$3,379M	\$5,353M	\$3,784M
Terrebonne Parish	\$15,558M	\$12,837M	\$18,063M	\$14,066M	\$19,306M	\$14,981M

Maintain Larose to Golden Meadow

Structural Protection

Project ID: 03a.HP.20



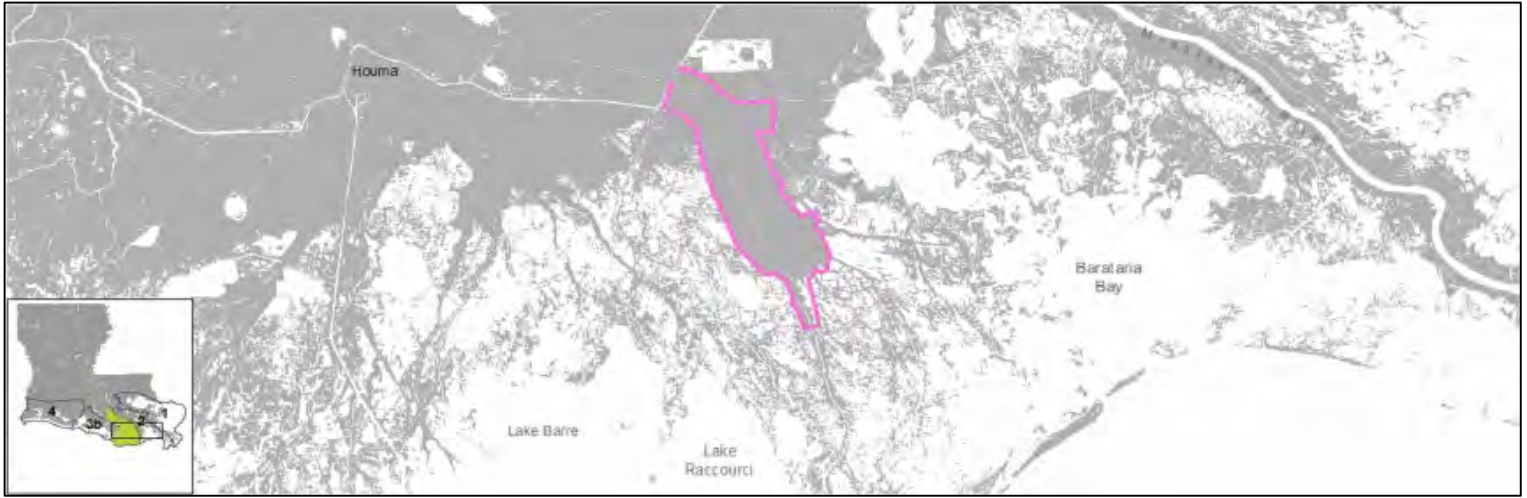
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Master Plan Team

Project Status

Engineering and Design

Description

Maintenance of the existing Larose to Golden Meadow levees at design elevation for the 50-year period of analysis. Project features include maintenance lifts of approximately 247,000 feet of earthen levee to account for compaction and subsidence.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	7,200,000
Estimated Cost Construction	\$	76,000,000
Operations & Maintenance (50 Years)	\$	168,300,000
Total	\$	251,500,000

Maintain Larose to Golden Meadow

Structural Protection

Project ID: 03a.HP.20



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project was selected for the plan because of its contribution to the reduction of expected annual damage (EAD). The project's effect on coast wide EAD is based on its damage reduction for events more frequent than the 100 year flood event in the moderate scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Larose	\$11,081M	\$10,194M	\$12,117M	\$13,257M	\$14,076M	\$15,012M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Larose	\$11,314M	\$12,014M	\$12,086M	\$13,982M	\$13,983M	\$14,966M

Amelia Levee Improvements (3E)

Structural Protection

Project ID: 03b.HP.08



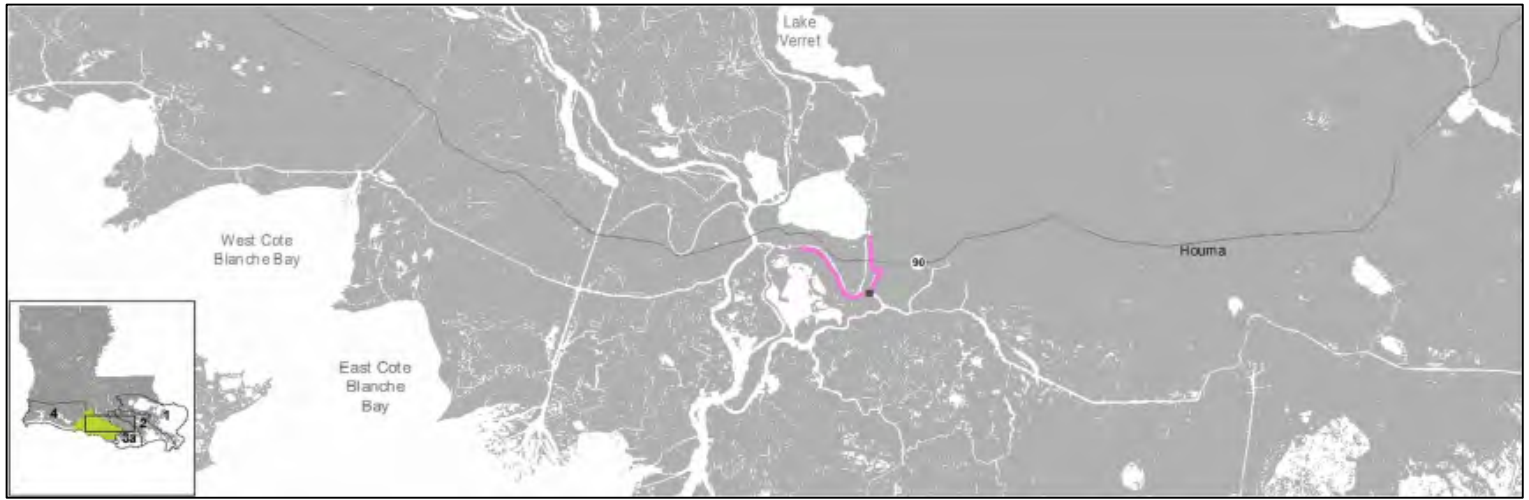
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Mary Parish Master Plan

Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 18.0 feet NAVD around Amelia along the GIWW between Lake Palourde and the Bayou Boeuf Lock for hurricane storm surge risk reduction. Project features include approximately 56,000 feet of earthen levee, 1,600 feet of concrete T-wall, and one 220-foot barge gate.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	18,600,000
Estimated Cost Construction	\$	195,000,000
Operations & Maintenance (50 Years)	\$	47,300,000
Total	\$	260,900,000

Amelia Levee Improvements (3E)

Structural Protection

Project ID: 03b.HP.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	\$1,035M	\$607M	\$1,521M	\$1,010M	\$2,437M	\$1,798M
Morgan City	\$6,523M	\$5,890M	\$10,099M	\$9,853M	\$12,011M	\$11,813M
Saint Martin Parish	\$497M	\$241M	\$544M	\$330M	\$623M	\$424M
Saint Mary Parish	\$1,558M	\$610M	\$2,185M	\$954M	\$3,101M	\$1,742M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	\$2,289M	\$1,766M	\$2,812M	\$2,227M	\$3,915M	\$3,219M
Morgan City	\$10,527M	\$8,625M	\$12,045M	\$10,991M	\$16,781M	\$16,427M
Saint Martin Parish	\$558M	\$466M	\$660M	\$528M	\$873M	\$635M
Saint Mary Parish	\$2,325M	\$1,512M	\$2,769M	\$1,785M	\$5,606M	\$5,196M

Morgan City Back Levee

Structural Protection

Project ID: 03b.HP.10



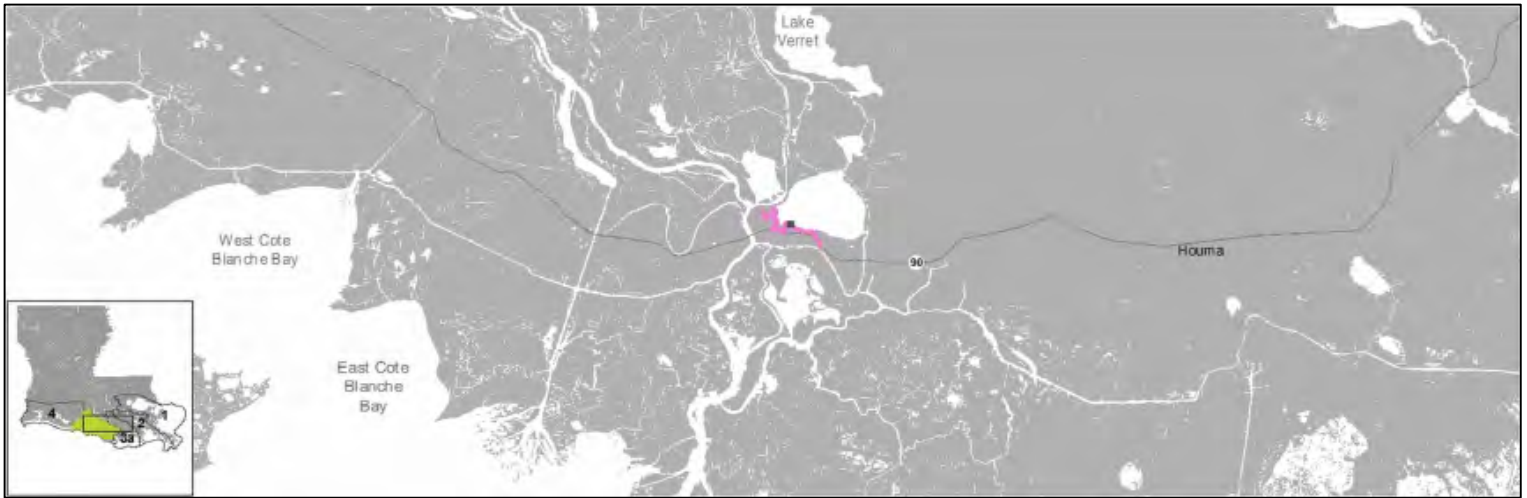
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Mary Parish Master Plan

Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 13.5 feet NAVD88 along the south shore of Lake Palourde in the vicinity of Morgan City for hurricane storm surge risk reduction. Project features include approximately 39,000 feet of earthen levee, 1,000 feet of concrete T-wall, and one 110-foot barge gate.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	9,400,000
Estimated Cost Construction	\$	99,000,000
Operations & Maintenance (50 Years)	\$	31,350,000
Total	\$	139,750,000

Morgan City Back Levee

Structural Protection

Project ID: 03b.HP.10



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Morgan City for all three storm surge events under the moderate scenario. The project also provides risk reduction for the 50 and 100 year event under the less optimistic scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Morgan City	\$6,523M	\$140M	\$10,099M	\$2,482M	\$12,011M	\$10,679M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Morgan City	\$10,527M	\$9,659M	\$12,045M	\$12,031M	\$16,781M	\$16,844M

Berwick to Wax Lake

Structural Protection

Project ID: 03b.HP.11



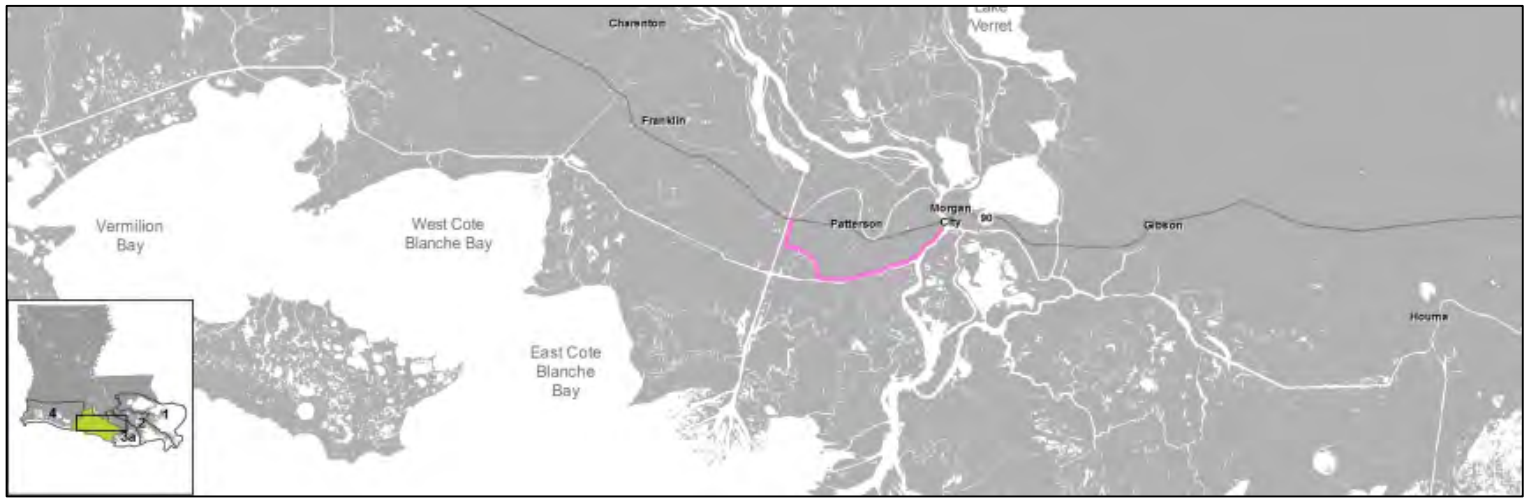
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Mary Parish Master Plan

Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 18.0 feet south of Berwick and Patterson along the GIWW between the Atchafalaya River and the Wax Lake Outlet. Project features include approximately 72,000 feet of earthen levee.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	18,200,000
Estimated Cost Construction	\$	191,000,000
Operations & Maintenance (50 Years)	\$	49,150,000
Total	\$	258,350,000

Berwick to Wax Lake

Structural Protection

Project ID: 03b.HP.11



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for the 500 year flood event under the less optimistic scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Bayou Vista	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Morgan City	\$6,523M	\$6,523M	\$10,099M	\$10,092M	\$12,011M	\$12,022M
Patterson	\$0M	\$0M	\$0M	\$0M	\$0M	\$0M
Saint Mary Parish	\$1,558M	\$1,558M	\$2,185M	\$2,185M	\$3,101M	\$3,101M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Bayou Vista	\$0M	\$0M	\$0M	\$0M	\$4,291M	\$0M
Morgan City	\$10,527M	\$10,507M	\$12,045M	\$12,029M	\$16,781M	\$12,898M
Patterson	\$0M	\$0M	\$0M	\$0M	\$6,074M	\$0M
Saint Mary Parish	\$2,325M	\$2,325M	\$2,769M	\$2,770M	\$5,606M	\$4,079M

Franklin and Vicinity Structural Protection

Project ID: 03b.HP.12



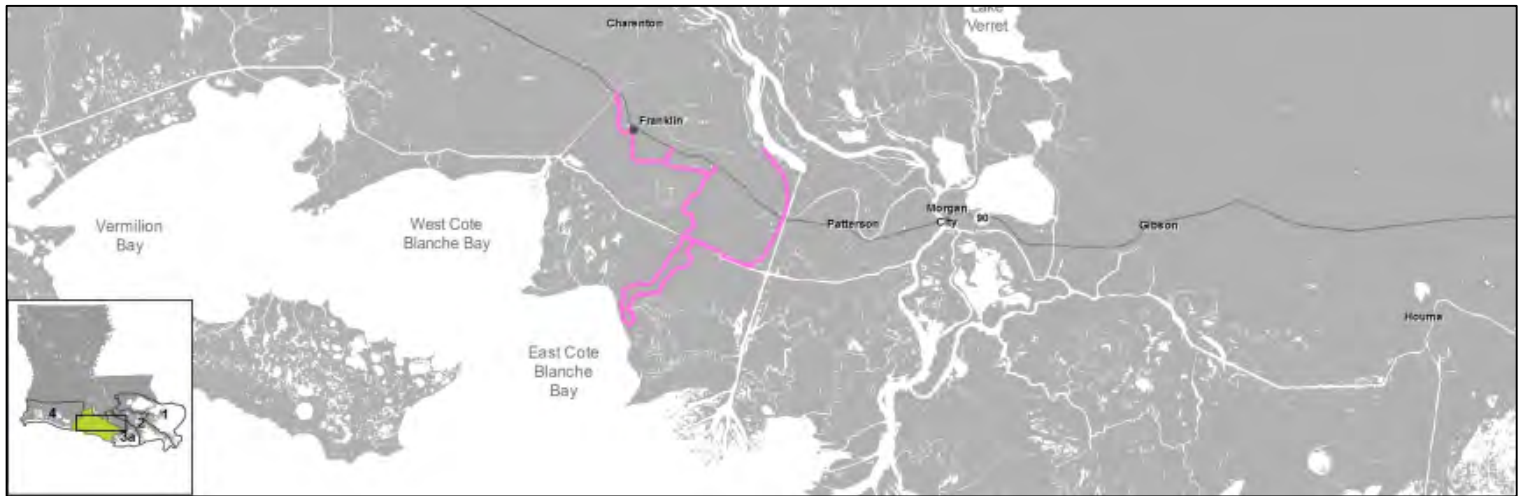
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Mary Parish Master Plan

Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 16.5 feet between the Wax Lake Outlet and the Charenton Drainage and Navigation Canal along the north bank of the GIWW, with a separate polder along Bayou Sale south of the GIWW. Project features include approximately 284,000 feet of levees, 1,000 feet of concrete T-wall, one 110-foot barge gate, and five pumps with a combined capacity of 2,700 cfs.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	69,260,000
Estimated Cost Construction	\$	735,000,000
Operations & Maintenance (50 Years)	\$	198,550,000
Total	\$	1,002,810,000

Franklin and Vicinity

Structural Protection

Project ID: 03b.HP.12



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels in Baldwin under both scenarios. This will be further evaluated in the design phase.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Baldwin	\$34M	\$39M	\$69M	\$86M	\$208M	\$251M
Franklin	\$80M	\$5M	\$765M	\$19M	\$2,596M	\$59M
Saint Mary Parish	\$1,558M	\$1,359M	\$2,185M	\$1,919M	\$3,101M	\$2,548M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Baldwin	\$51M	\$73M	\$126M	\$241M	\$355M	\$1,354M
Franklin	\$717M	\$23M	\$1,852M	\$51M	\$3,117M	\$157M
Saint Mary Parish	\$2,325M	\$2,060M	\$2,769M	\$2,362M	\$5,606M	\$4,562M

Bayou Chene Floodgate

Structural Protection

Project ID: 03b.HP.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

St. Mary Parish Master Plan

Project Status

Conceptual Phase

Description

Construction of a floodgate and associated levee to an elevation of 10 feet NAVD88 across Bayou Chene. Project features include approximately 32,000 feet of earthen levee and one 420-foot floodgate.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	5,800,000
Estimated Cost Construction	\$	61,000,000
Operations & Maintenance (50 Years)	\$	13,250,000
Total	\$	80,050,000

Bayou Chene Floodgate

Structural Protection

Project ID: 03b.HP.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

This project was not modeled and therefore damage data is not available. It was selected due to proven on-the-ground effectiveness of a temporary structure during the 2011 high water event.

Abbeville and Vicinity Structural Protection

Project ID: 004.HP.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

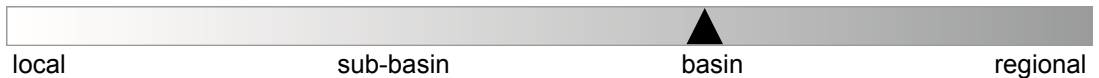
2007 State Master Plan

Project Status

Conceptual Phase

Description

Construction of a levee to an elevation of 17-20 feet in the vicinity of the marsh-upland interface between Abbeville and the Charenton Drainage and Navigation Canal for hurricane storm surge risk reduction. Project features include approximately 202,000 feet of earthen levee, 6,000 feet of concrete T-wall, two 56-foot sector gates, and two 110-foot barge gates. NOTE: Project was combined with 03b.HP.06 for selection in Master Plan and areas of overlap between the two projects were eliminated. Project features and costs presented in this fact sheet represent only the portion of the alignment that was retained for the Final Plan.

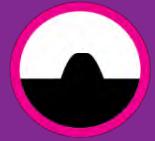
Scale of Influence**Project Cost Estimate:**

Planning / Engineering & Design	\$	71,070,000
Estimated Cost Construction	\$	755,000,000
Operations & Maintenance (50 Years)	\$	153,500,000
Total	\$	979,570,000

Abbeville and Vicinity

Structural Protection

Project ID: 004.HP.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for all of the communities listed below except Franklin for all three storm surge events under both scenarios. Model results indicate the project could lead to elevated water levels in Franklin for the 500 year storm surge event under both scenarios. This will be further evaluated in the design phase.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$105M	\$0M	\$646M	\$1M	\$2,983M	\$19M
Baldwin	\$34M	\$0M	\$69M	\$0M	\$208M	\$25M
Franklin	\$80M	\$101M	\$765M	\$720M	\$2,596M	\$2,739M
Iberia Parish	\$2,510M	\$123M	\$4,648M	\$215M	\$8,870M	\$411M
Saint Mary Parish	\$1,558M	\$1,505M	\$2,185M	\$1,966M	\$3,101M	\$2,873M
Vermilion Parish	\$3,401M	\$1,272M	\$6,105M	\$2,097M	\$12,104M	\$5,064M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$459M	\$5M	\$2,260M	\$11M	\$6,743M	\$121M
Baldwin	\$51M	\$0M	\$126M	\$7M	\$355M	\$42M
Franklin	\$717M	\$1,278M	\$1,852M	\$2,478M	\$3,117M	\$3,198M
Iberia Parish	\$3,920M	\$218M	\$7,651M	\$281M	\$11,114M	\$801M
Saint Mary Parish	\$2,325M	\$2,155M	\$2,769M	\$2,553M	\$5,606M	\$5,170M
Vermilion Parish	\$5,718M	\$1,975M	\$10,531M	\$4,183M	\$15,284M	\$8,158M

Whiskey Island West Flank

Barrier Island/Headland Restoration

Project ID: 03a.BH.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

CWPPRA

Project Status

Engineering and Design

Description

Restoration of the west flank of Whiskey Island to provide dune, beach, and back barrier marsh habitat and to provide storm surge and wave attenuation in the Terrebonne Basin.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	253 ac	257 ac
Long Term (Year 50)	251 ac	247 ac

Project Cost Estimate

Planning/Engineering & Design	\$	3,580,000
Estimated Cost Construction	\$	44,769,000
Operations & Maintenance (50 years)	\$	810,000
Total	\$	49,159,000

Sediment Diversion

Planning Unit 4



River-Use Workgroup

Conceptual Phase

Sediment diversion of the Atchafalaya River into or to benefit Penchant and southwest Terrebonne marshes, 20,000 cfs capacity (modeled with continuous operation at 20,000 cfs).

local sub-basin basin regional

Less Optimistic

-13108 ac

32995 ac

\$ 18,210,000

\$ 227,679,000

\$ 91,070,000

\$ 336,959,000

Wax Lake Delta Reallocation

Sediment Diversion

Project ID: 03b.DI.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

River-Use Workgroup

Project Status

Conceptual Phase

Description

Sediment diversion at Wax Lake Delta to build and maintain land, 67% of Atchafalaya River flow (modeled at 67% of river flow continuously).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	130 ac	-178 ac
Long Term (Year 50)	2675 ac	-9611 ac

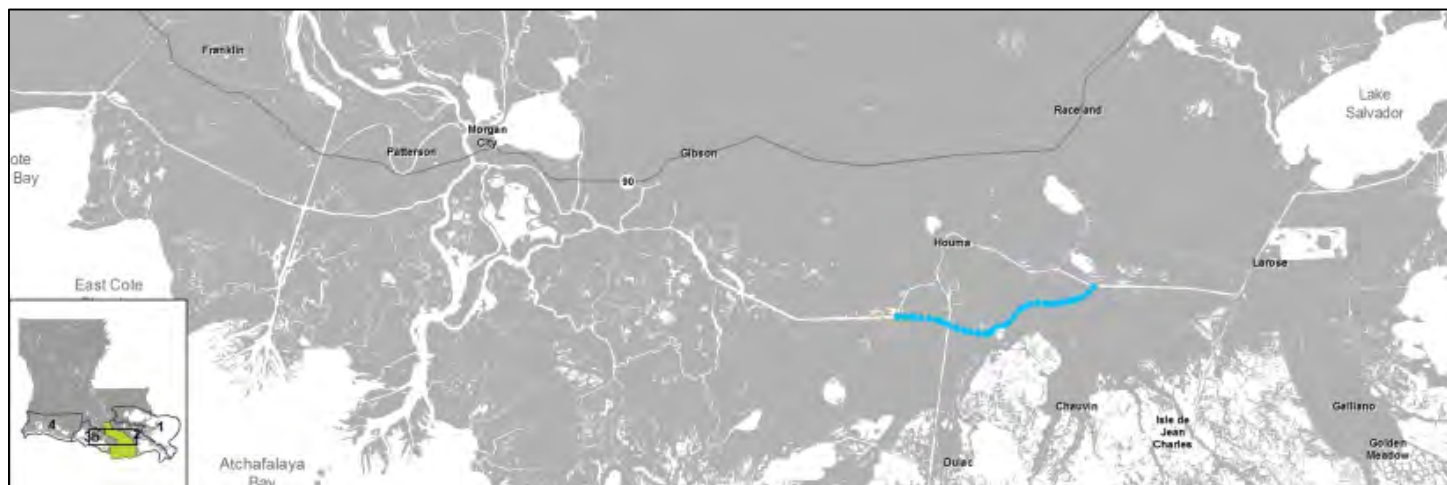
Project Cost Estimate

Planning/Engineering & Design	\$ 115,550,000
Estimated Cost Construction	\$ 1,499,573,000
Operations & Maintenance (50 years)	\$ 299,910,000
Total	\$ 1,915,033,000

Project ID: 03a.HR.03



Planning Unit 4



LACPR

Conceptual Phase

Construction of a GIWW Bypass channel south of Houma to increase flow down the HNC and east toward Larose.

local sub-basin basin regional

Less Optimistic

1117 ac

24462 ac

\$ 43,210,000

\$ 540,138,000

\$ 108,030,000

\$ 691,378,000

Freshwater Introduction to GIWW Toward Highway 82

Hydrologic Restoration

Project ID: 03b.HR.01



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b**
- Planning Unit 4



Project Source	MLODS
Project Status	Conceptual Phase
Description	Dredging approximately 230,000 feet of the GIWW (100-foot width with average depth of removal -5 feet NAVD88) east of Highway 82 to increase freshwater flow to marsh along Vermilion and Cote Blanche Bays.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	96 ac	22 ac
Long Term (Year 50)	67 ac	-114 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 7,230,000
	Estimated Cost Construction	\$ 90,361,000
	Operations & Maintenance (50 years)	\$ 36,140,000
	Total	\$ 133,731,000

Terrebonne Bay Rim

Marsh Creation

Project ID: 03a.MC.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,370 acres of marsh along the northern rim of Terrebonne Bay (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3449 ac	3433 ac
Long Term (Year 50)	3425 ac	-235 ac

Project Cost Estimate

Planning/Engineering & Design	\$	90,620,000
Estimated Cost Construction	\$	1,112,390,000
Operations & Maintenance (50 years)	\$	11,210,000
Total	\$	1,214,220,000

Caillou Lake-Lake Mechant Marsh Creation

Project ID: 03a.MC.04

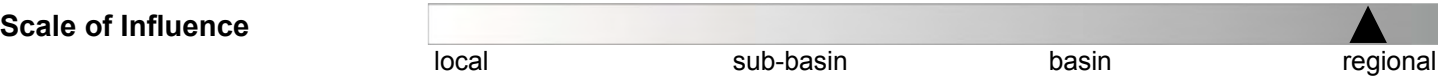


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a**
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR, LCA
Project Status	Conceptual Phase/Planning and Feasibility

Description Creation of approximately 22,700 acres of marsh at Caillou Lake and Lake Mechant (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	22999 ac	23139 ac
	Long Term (Year 50)	23805 ac	18468 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 427,880,000	
	Estimated Cost Construction	\$ 7,244,501,000	
	Operations & Maintenance (50 years)	\$ 72,940,000	
	Total	\$ 7,745,321,000	

Caillou Lake-Lake Mechant- Component A

Marsh Creation

Project ID: 03a.MC.04a



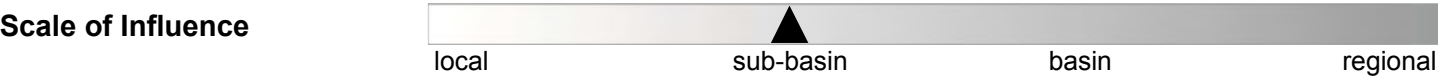
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR, LCA
Project Status	Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 6,360 acres of marsh near Caillou Lake west of Wilson Pass (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.04).



Land Area	Moderate		Less Optimistic	
	Near Term (Year 20)	5952 ac	5957 ac	
	Long Term (Year 50)	5930 ac	16 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	158,450,000
	Estimated Cost Construction		\$	2,028,460,000
	Operations & Maintenance (50 years)		\$	20,420,000
	Total		\$	2,207,330,000

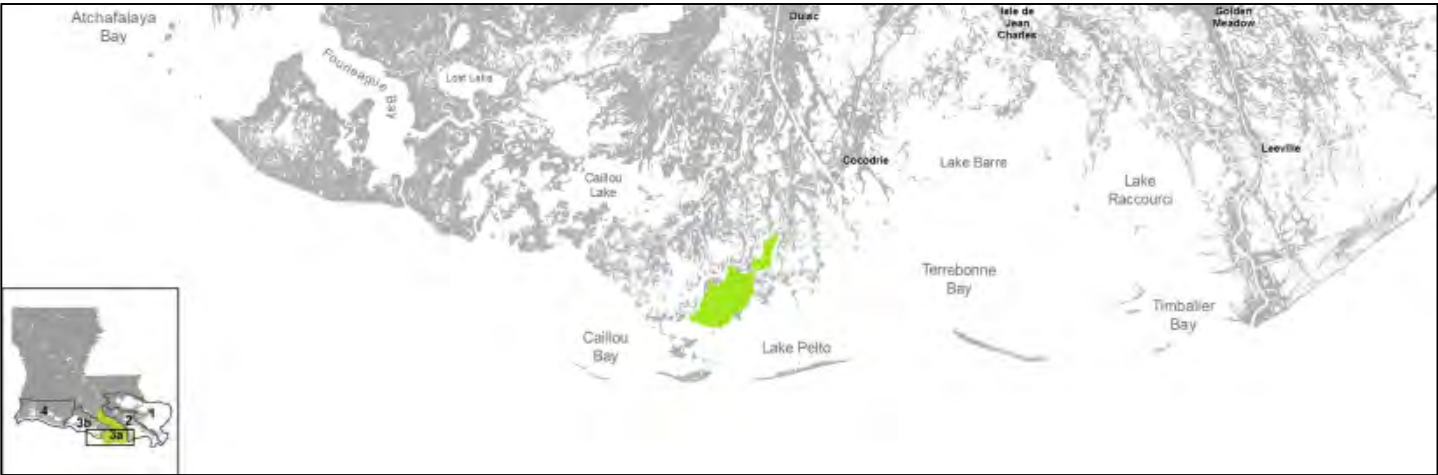
Caillou Lake-Lake Mechant- Component B

Marsh Creation

Project ID: 03a.MC.04b

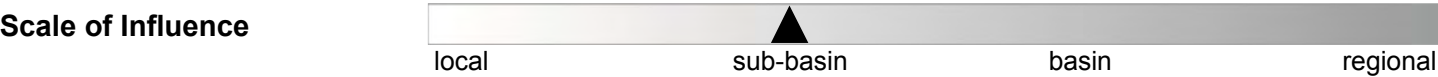


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR, LCA
Project Status	Conceptual Phase/Planning and Feasibility

Description	Creation of approximately 5,770 acres on marsh near Caillou Lake east of Wilson Pass (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.04).
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5144 ac	5147 ac
Long Term (Year 50)	5145 ac	26 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 142,910,000
	Estimated Cost Construction	\$ 1,811,125,000
	Operations & Maintenance (50 years)	\$ 18,230,000
	Total	\$ 1,972,265,000

Caillou Lake-Lake Mechant- Component C

Marsh Creation

Project ID: 03a.MC.04c

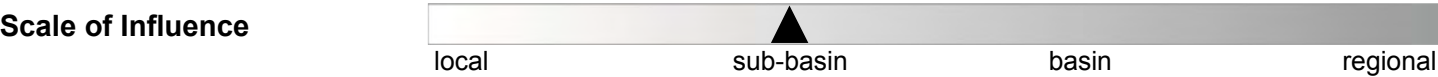


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR, LCA
Project Status	Conceptual Phase/Planning and Feasibility

Description	Creation of approximately 5,900 acres of marsh near the south shore of Caillou Lake(through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.04).
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3718 ac	3730 ac
Long Term (Year 50)	3672 ac	219 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 148,130,000
	Estimated Cost Construction	\$ 1,883,570,000
	Operations & Maintenance (50 years)	\$ 18,960,000
	Total	\$ 2,050,660,000

Caillou Lake-Lake Mechant- Component D

Marsh Creation

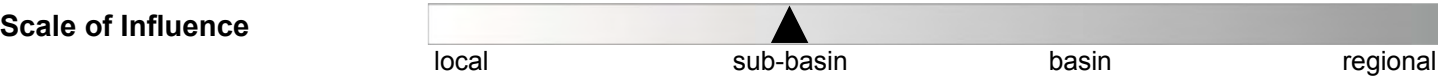
Project ID: 03a.MC.04d



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR, LCA
Project Status	Conceptual Phase/Planning and Feasibility
Description	Creation of approximately 4,770 acres of marsh near Caillou Lake east of Bay Junop (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.04).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4381 ac	4394 ac
Long Term (Year 50)	4415 ac	314 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 121,660,000
	Estimated Cost Construction	\$ 1,521,345,000
	Operations & Maintenance (50 years)	\$ 15,320,000
	Total	\$ 1,658,325,000

Golden Meadow-Montegut Marsh Creation

Project ID: 03a.MC.05



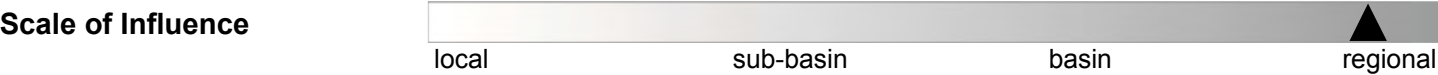
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 30,900 acres of marsh from Golden Meadow to Montegut (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	0 ac	0 ac
	Long Term (Year 50)	31370 ac	25921 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 440,540,000	
	Estimated Cost Construction	\$ 7,651,301,000	
	Operations & Maintenance (50 years)	\$ 99,100,000	
	Total	\$ 8,190,941,000	

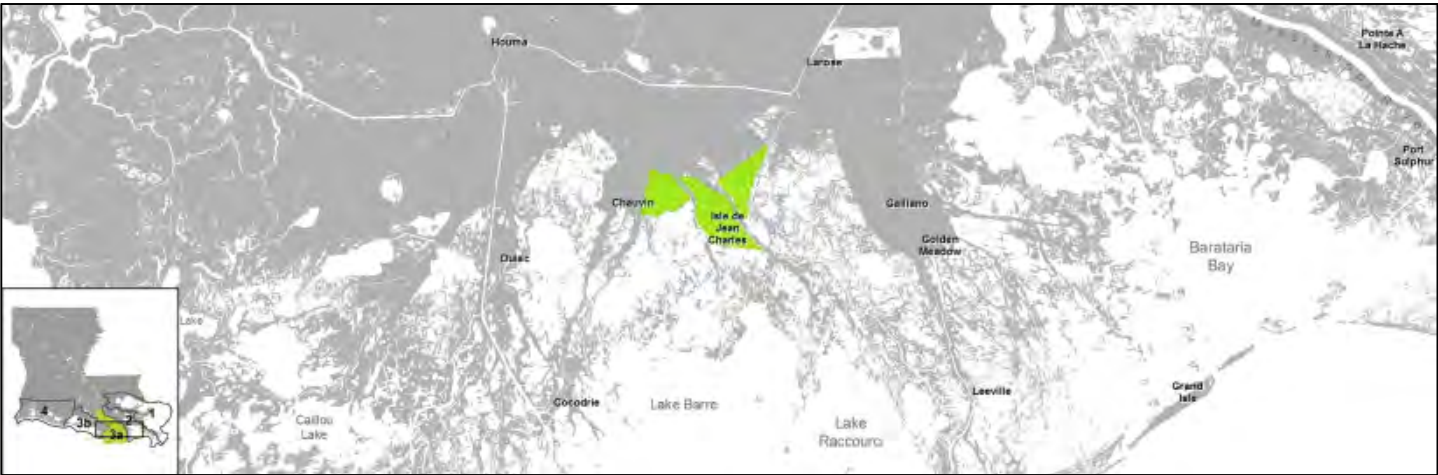
Golden Meadow-Montegut- Component A

Marsh Creation

Project ID: 03a.MC.05a



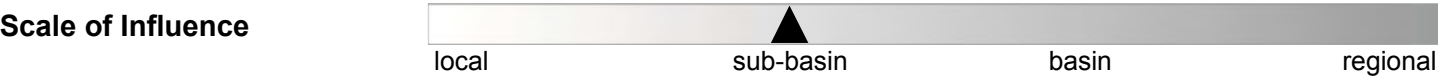
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 8,960 acres of marsh from Montegut to Grand Bayou Canal (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.05).



Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	9493 ac	9501 ac
	Long Term (Year 50)	9069 ac	271 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 171,790,000	
	Estimated Cost Construction	\$ 2,218,877,000	
	Operations & Maintenance (50 years)	\$ 28,740,000	
	Total	\$ 2,419,407,000	

Project ID: 03a.MC.05b



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 11,430 acres of marsh from Grand Bayou Canal to Golden Meadow (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.05).

local sub-basin basin regional

2582 ac

\$ 3,080,491,000

Project ID: 03a.MC.05c



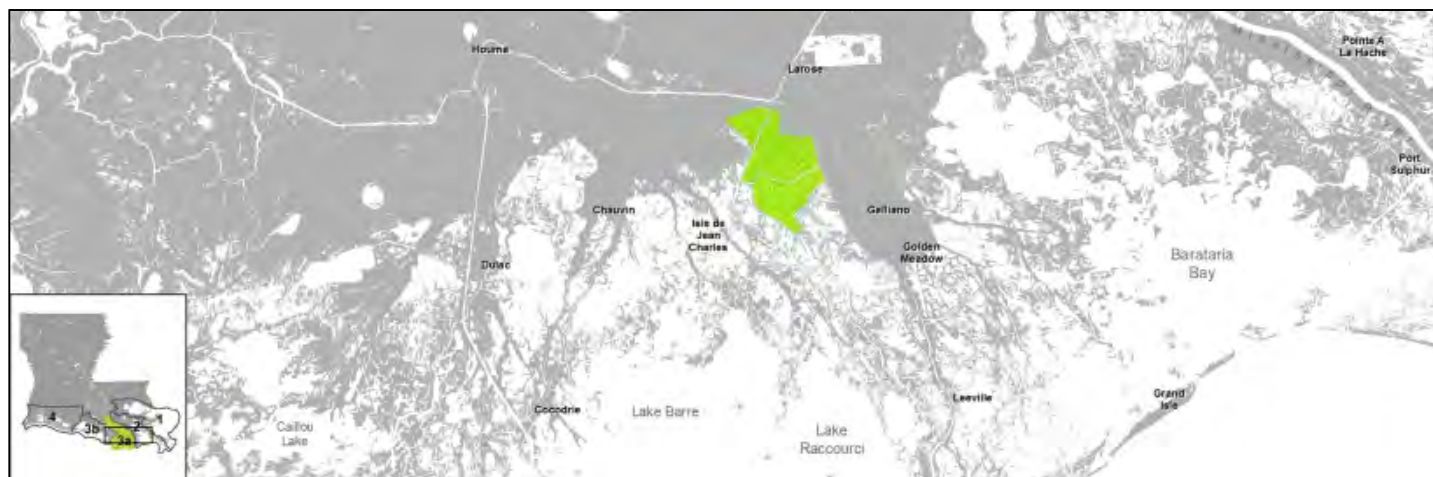
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 10,510 acres of marsh from Grand Bayou Canal to Larose (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.05).

local sub-basin basin regional

Less Optimistic

Near Term (Year 20)

7590 ac

7727 ac

Long Term (Year 50)

7418 ac

2874 ac

Planning/Engineering & Design

\$ 197,770,000

Estimated Cost Construction

\$ 2,601,442,000

Operations & Maintenance (50 years)

\$ 33,700,000

Total

\$ 2,832,912,000

Golden Meadow-Montegut- Component D

Marsh Creation

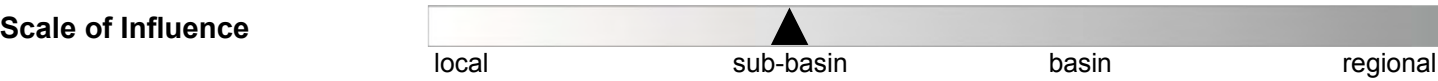
Project ID: 03a.MC.05d



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Creation of approximately 5,560 acres of marsh from Galliano to Golden Meadow (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.05).

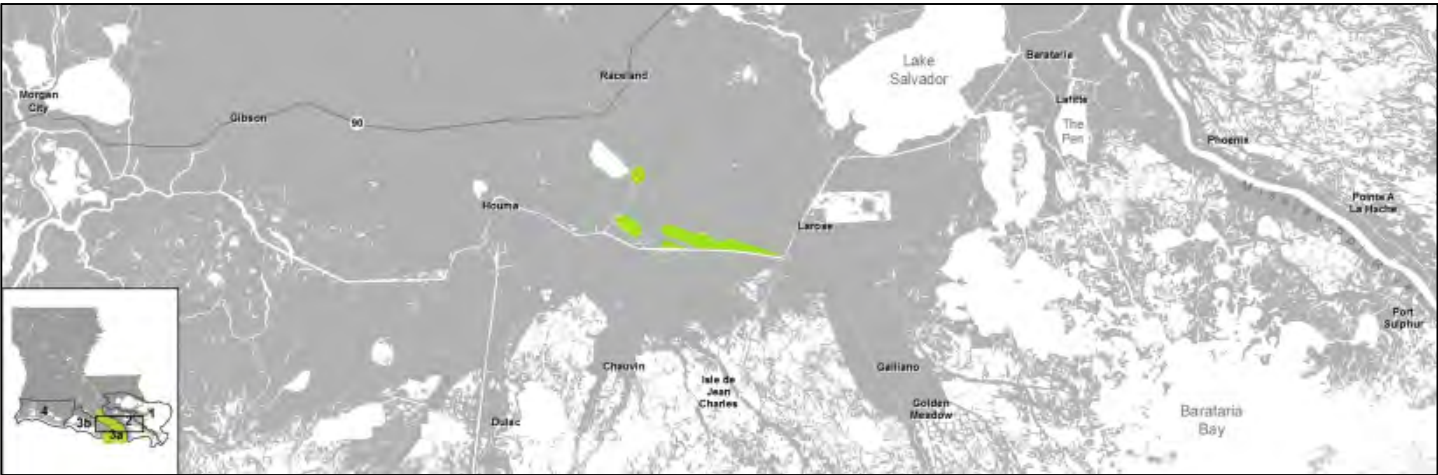


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5299 ac	5333 ac
Long Term (Year 50)	5401 ac	1678 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 110,860,000
	Estimated Cost Construction	\$ 1,377,234,000
	Operations & Maintenance (50 years)	\$ 17,840,000
	Total	\$ 1,505,934,000

Montegut Area
Marsh Creation
Project ID: 03a.MC.06



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR		
Project Status	Conceptual Phase		
Description	Creation of approximately 1,130 acres of marsh in the Montegut area adjacent to GIWW west of Larose (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Land Area	Moderate	Less Optimistic	
Near Term (Year 20)	1141 ac	1134 ac	
Long Term (Year 50)	1141 ac	1155 ac	
Project Cost Estimate	Planning/Engineering & Design	\$	40,900,000
	Estimated Cost Construction	\$	490,817,000
	Operations & Maintenance (50 years)	\$	4,070,000
	Total	\$	535,787,000

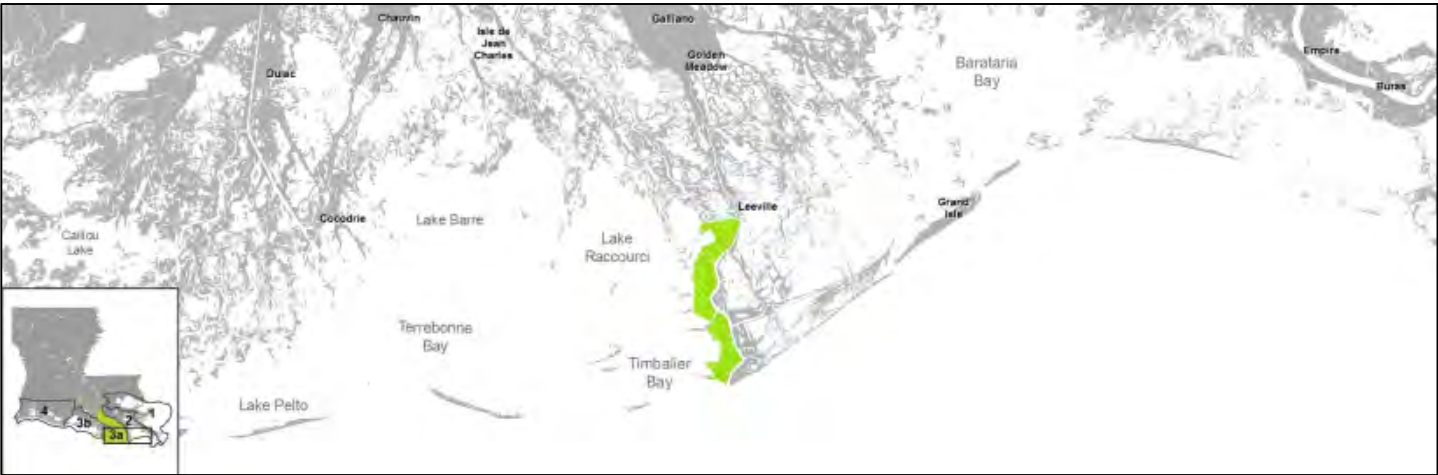
Belle Pass-Golden Meadow- Component A

Marsh Creation

Project ID: 03a.MC.07a



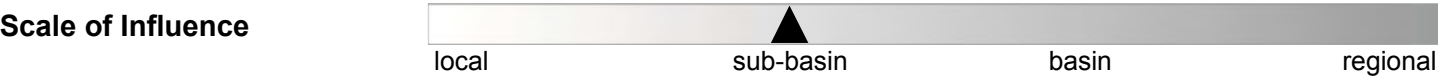
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 5,190 acres of marsh from Golden Meadow to the Southwestern Louisiana Canal (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.07).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3746 ac	3755 ac
Long Term (Year 50)	3554 ac	301 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 98,550,000
Estimated Cost Construction		\$ 1,215,339,000
Operations & Maintenance (50 years)		\$ 16,740,000
Total		\$ 1,330,629,000

Belle Pass-Golden Meadow- Component B

Marsh Creation

Project ID: 03a.MC.07b



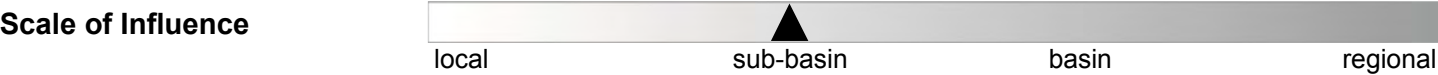
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a**
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 9,230 acres of marsh from the Southwestern Louisiana Canal to Belle Pass (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.07).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	9352 ac	9362 ac
Long Term (Year 50)	8893 ac	478 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 167,730,000
Estimated Cost Construction		\$ 2,160,603,000
Operations & Maintenance (50 years)		\$ 29,760,000
Total		\$ 2,358,093,000

Project ID: 03a.MC.08



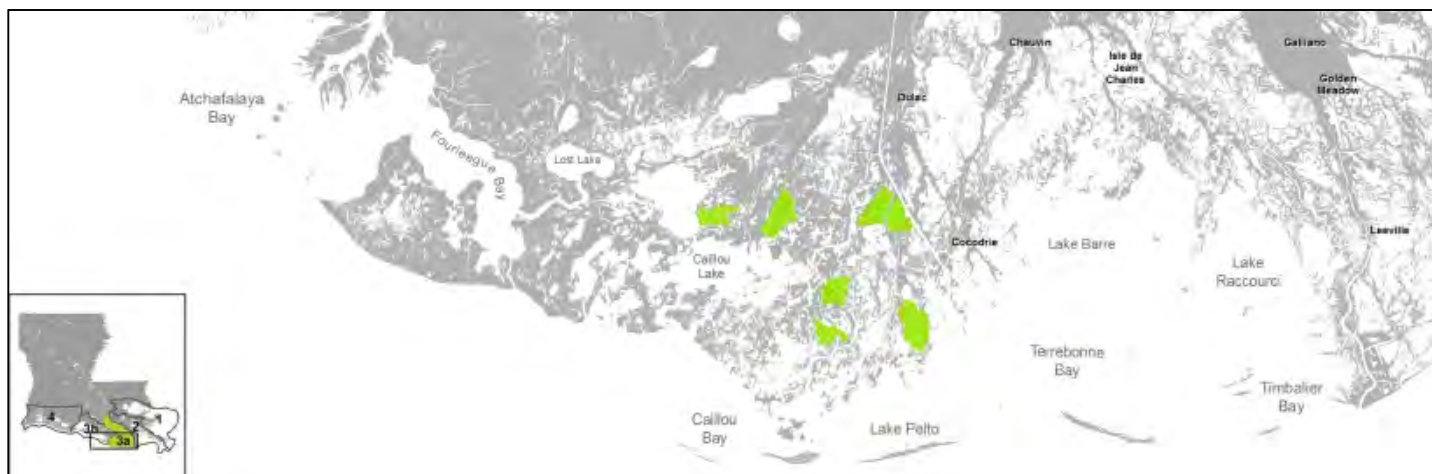
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 8,920 acres of marsh from the Houma Navigation Canal to Lake Merchant (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

9018 ac

9020 ac

Long Term (Year 50)

9033 ac

589 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 199,740,000

Estimated Cost Construction

\$ 2,631,181,000

Operations & Maintenance (50 years)

\$ 28,940,000

Total

\$ 2,859,861,000

North Terrebonne Bay
Marsh Creation
Project ID: 03a.MC.09



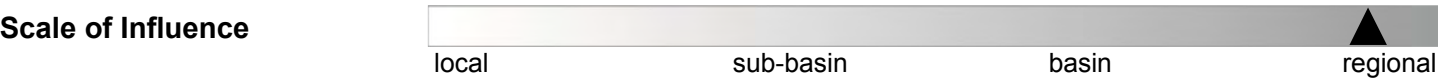
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 24,680 acres of marsh in North Terrebonne Bay south of Montegut (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	24803 ac	24766 ac
Long Term (Year 50)	24799 ac	15737 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 424,190,000
	Estimated Cost Construction	\$ 7,132,800,000
	Operations & Maintenance (50 years)	\$ 79,240,000
	Total	\$ 7,636,230,000

North Terrebonne Bay- Component A

Marsh Creation

Project ID: 03a.MC.09a



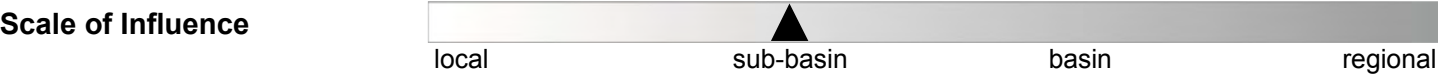
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 5,190 acres of marsh south of Montegut between Bayou Pointe au Chien and Catfish Lake (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.09).

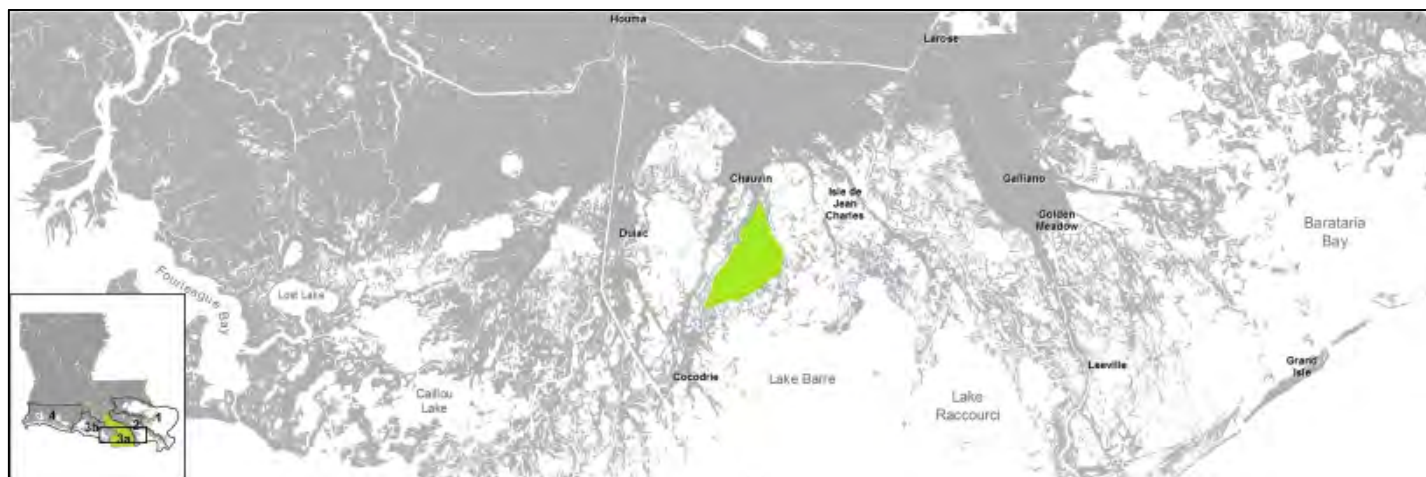


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3590 ac	3592 ac
Long Term (Year 50)	2903 ac	131 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 119,910,000
Estimated Cost Construction		\$ 1,497,888,000
Operations & Maintenance (50 years)		\$ 16,640,000
Total		\$ 1,634,438,000

Project ID: 03a.MC.09c



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 8,890 acres of marsh south of Montegut between Bayou Terrebonne and Point Barre (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.09).

local sub-basin basin regional

Land Area	Moderate	Less Optimistic
Near Term (Year 20)	9230 ac	9213 ac
Long Term (Year 50)	9232 ac	27 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 195,530,000
Estimated Cost Construction		\$ 2,567,808,000
Operations & Maintenance (50 years)		\$ 28,530,000
Total		\$ 2,791,868,000

North Terrebonne Bay- Component D

Marsh Creation

Project ID: 03a.MC.09d

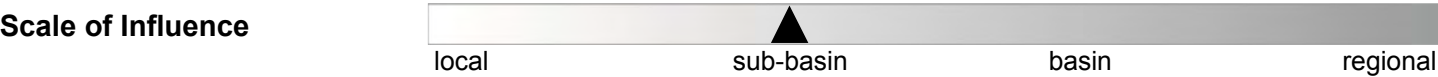


- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description	Creation of approximately 5,680 acres of marsh south of Montegut between Point Barre and Bayou St. Jean Charles (through sediment dredging of Terrebonne Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.09).
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5827 ac	5801 ac
Long Term (Year 50)	5749 ac	75 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 130,480,000
	Estimated Cost Construction	\$ 1,640,544,000
	Operations & Maintenance (50 years)	\$ 18,230,000
	Total	\$ 1,789,254,000

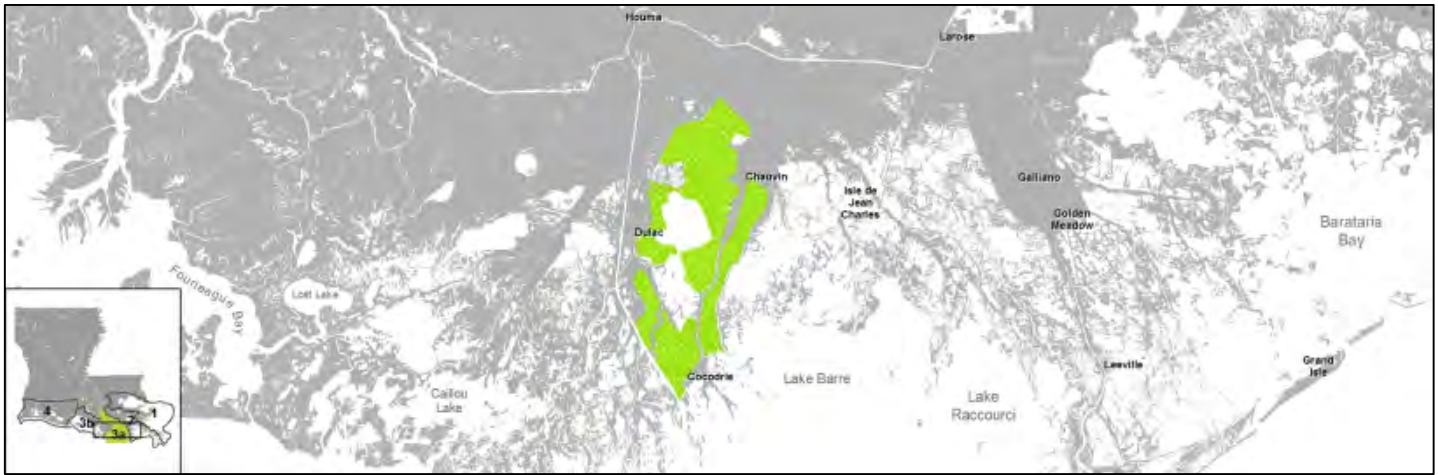
Dulac-Cocodrie

Marsh Creation

Project ID: 03a.MC.10



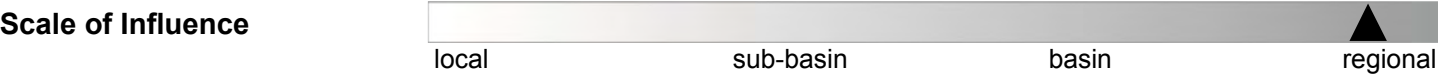
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 28,060 acres of marsh in the Dulac-Cocodrie area (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	28040 ac	28040 ac
Long Term (Year 50)	28432 ac	30704 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 480,290,000
Estimated Cost Construction		\$ 9,347,753,000
Operations & Maintenance (50 years)		\$ 90,020,000
Total		\$ 9,918,063,000

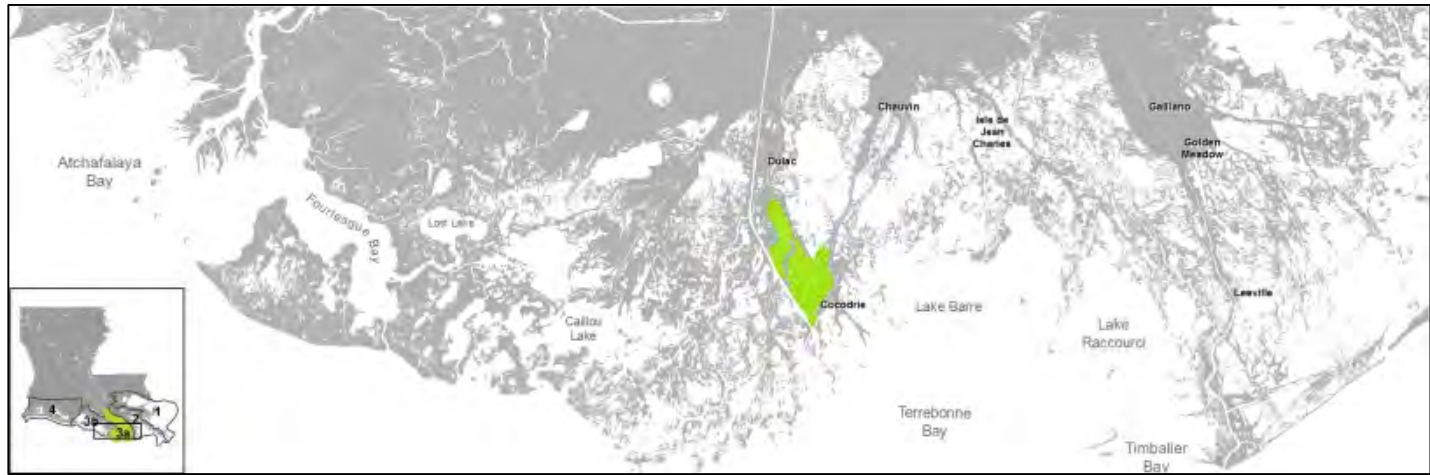
Dulac-Cocodrie- Component A

Marsh Creation

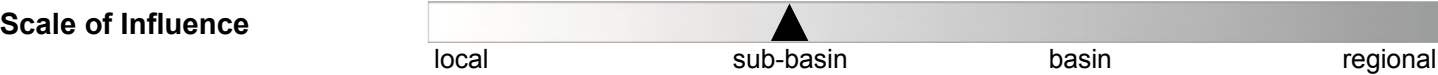
Project ID: 03a.MC.10a



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Creation of approximately 6,170 acres of marsh between Dulac and Cocodrie (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.10).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4881 ac	4909 ac
Long Term (Year 50)	4827 ac	137 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 160,430,000
	Estimated Cost Construction	\$ 2,056,506,000
	Operations & Maintenance (50 years)	\$ 19,800,000
	Total	\$ 2,236,736,000

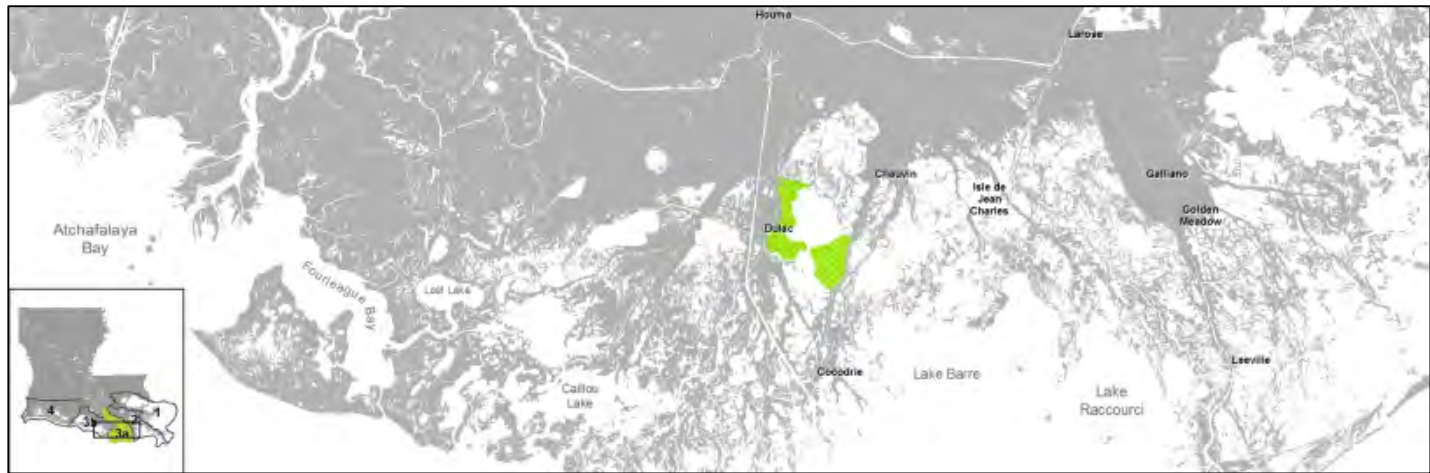
Dulac-Cocodrie- Component B

Marsh Creation

Project ID: 03a.MC.10b



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

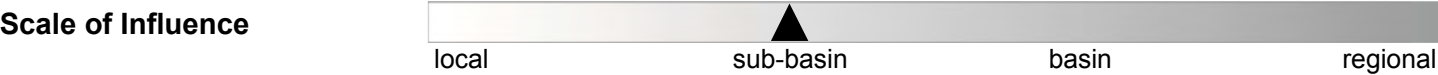
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 5,330 acres of marsh east and west of Lake Boudreaux (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.10).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4902 ac	5060 ac
Long Term (Year 50)	4989 ac	160 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 140,380,000
Estimated Cost Construction		\$ 1,776,073,000
Operations & Maintenance (50 years)		\$ 17,100,000
Total		\$ 1,933,553,000

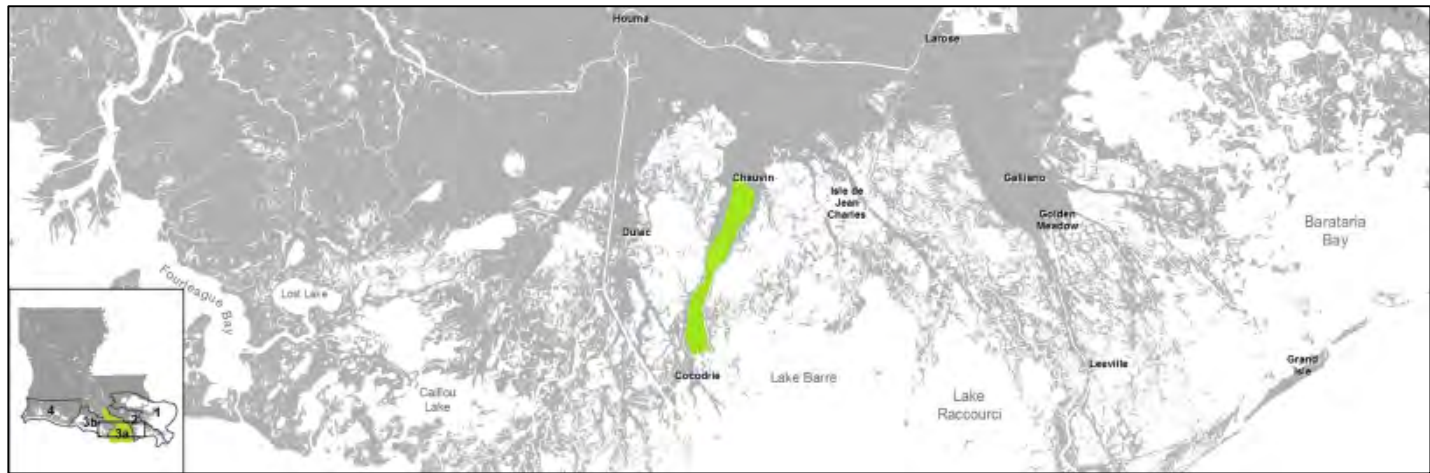
Dulac-Cocodrie- Component C

Marsh Creation

Project ID: 03a.MC.10c



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

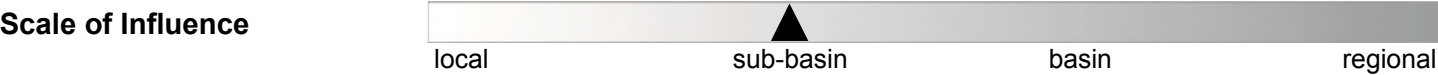
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 5,330 acres of marsh between Bayou Terrebonne and Bayou Petite Caillou (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.10).

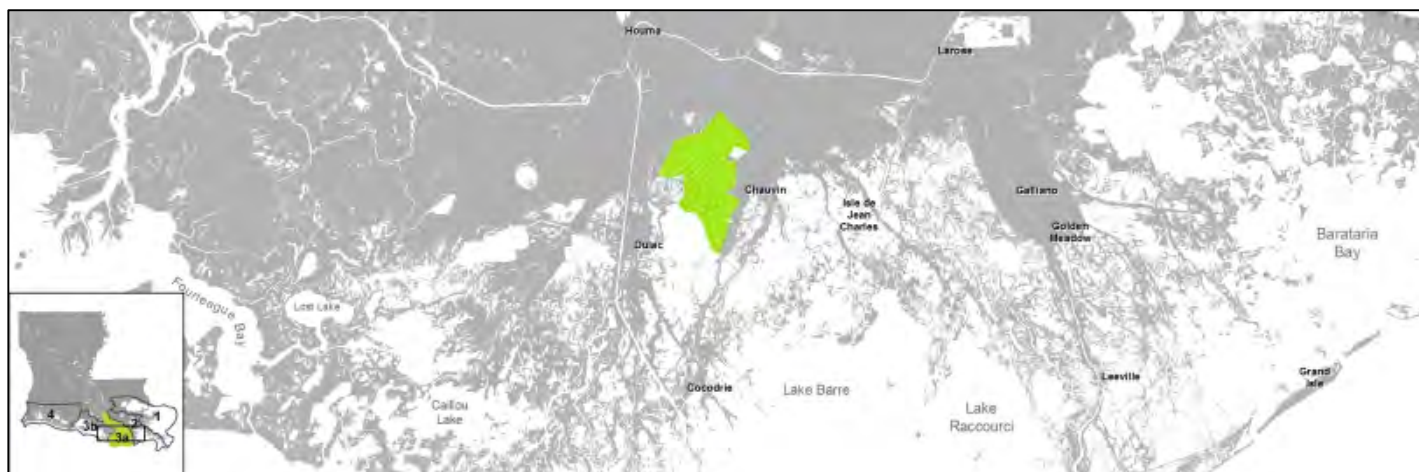


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3847 ac	3856 ac
Long Term (Year 50)	3658 ac	-28 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 140,380,000
Estimated Cost Construction		\$ 1,776,073,000
Operations & Maintenance (50 years)		\$ 17,100,000
Total		\$ 1,933,553,000

Project ID: 03a.MC.10d



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 11,220 acres of marsh between Bayou Petite Caillou and Lake Boudreaux (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 03a.MC.10).

local sub-basin basin regional

Less Optimistic

12734 ac

7205 ac

\$ 268,720,000

\$ 3,739,101,000

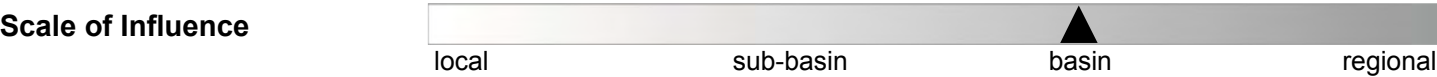
\$ 36,010,000

\$ 4,043,831,000



Project Source	LACPR
Project Status	Conceptual Phase

Description	Creation of approximately 5,190 acres of marsh near Bayou Decade (through sediment dredging of the Ship Shoal area and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.
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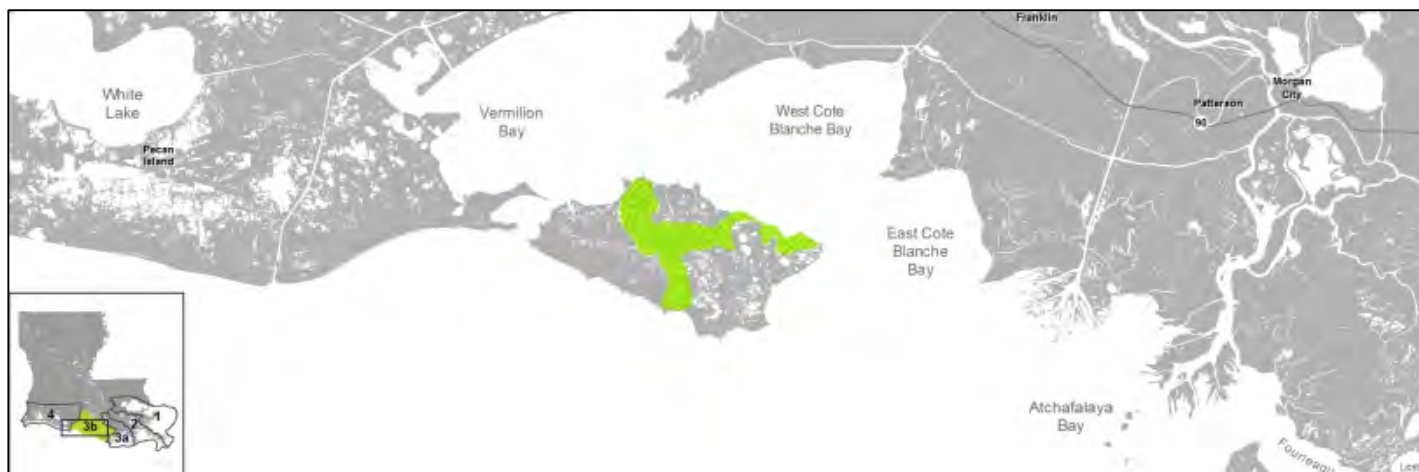
Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5523 ac	6091 ac
Long Term (Year 50)	5998 ac	1835 ac

Project Cost Estimate	Planning/Engineering & Design	\$ 106,970,000
	Estimated Cost Construction	\$ 1,325,770,000
	Operations & Maintenance (50 years)	\$ 17,030,000
	Total	\$ 1,449,770,000

Project ID: 03b.MC.03



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 6,670 acres of marsh at Marsh Island (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Less Optimistic

6808 ac

4212 ac

\$ 104,650,000

\$ 1,295,258,000

\$ 21,760,000

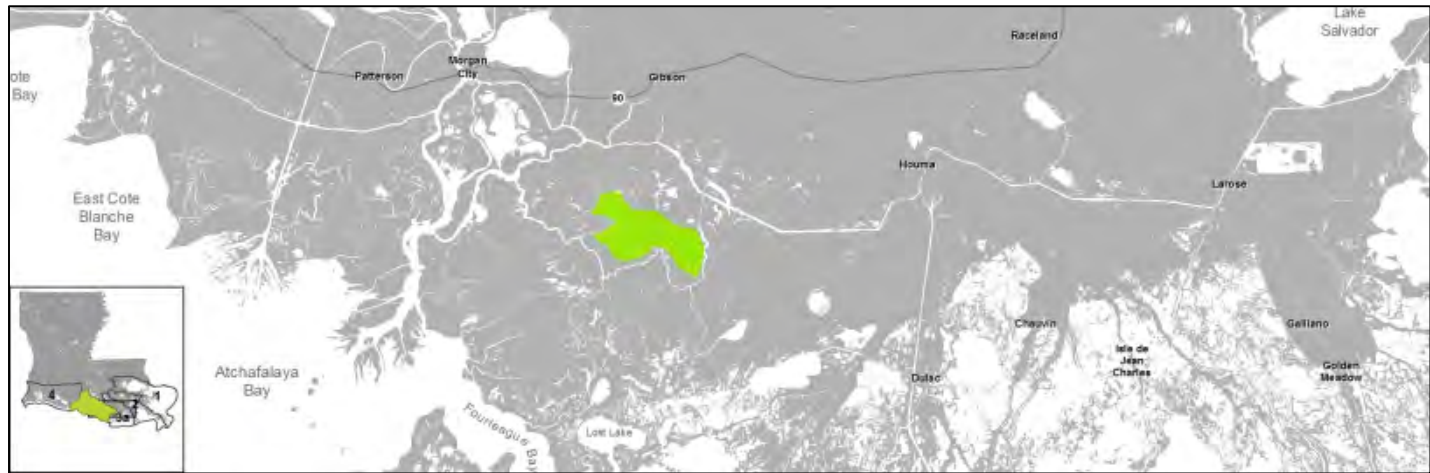
\$ 1,421,668,000

Bayou Penchant Marsh Creation

Project ID: 03b.MC.04



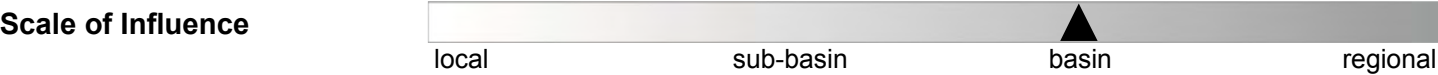
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b**
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 1,350 acres of marsh near Bayou Penchant (through sediment dredging of Atchafalaya Bay and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	1376 ac	1362 ac
Long Term (Year 50)	1365 ac	1847 ac

Project Cost Estimate	Planning/Engineering & Design	\$27,920,000
	Estimated Cost Construction	\$335,081,000
	Operations & Maintenance (50 years)	\$4,770,000
	Total	\$367,771,000

Marsh Creation

Project ID: 03b.MC.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 1,750 acres of marsh along the Lower Atchafalaya River (through sediment dredging of the Atchafalaya River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

1488 ac

1523 ac

Long Term (Year 50)

1226 ac

1705 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 10,730,000

Estimated Cost Construction

\$ 128,811,000

Operations & Maintenance (50 years)

\$ 6,040,000

Total

\$ 145,581,000

Project ID: 03b.MC.09



Planning Unit 4



LACPR

Planning and Feasibility

Creation of approximately 5,830 acres of marsh at Point Au Fer Island (through sediment dredging of the Atchafalaya River and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Less Optimistic

5796 ac

4650 ac

\$ 46,050,000

\$ 552,656,000

\$ 19,430,000

\$ 618,136,000

Atchafalaya Bay
Oyster Barrier Reef
Project ID: 03b.OR.01



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

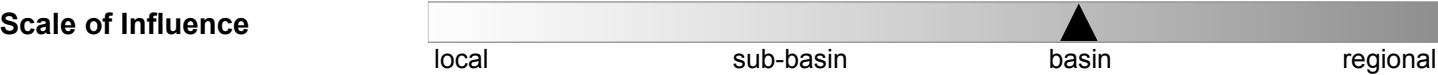
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 25,000 feet of oyster barrier reef in Atchafalaya Bay from Eugene Island to Point Au Fer Island to provide oyster habitat, reduce wave erosion, and prevent further marsh degradation.



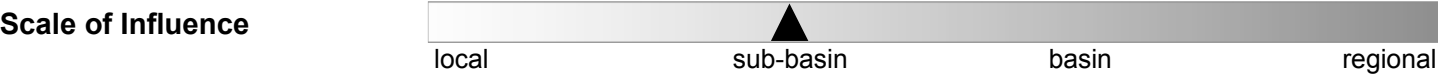
Land Area	Moderate	Less Optimistic
Near Term (Year 20)	67 ac	58 ac
Long Term (Year 50)	60 ac	53 ac

Project Cost Estimate	Planning/Engineering & Design	\$	1,340,000
	Estimated Cost Construction	\$	16,711,000
	Operations & Maintenance (50 years)	\$	670,000
	Total	\$	18,721,000



Project Source	LACPR
Project Status	Conceptual Phase

Description	Shoreline protection through rock breakwaters of approximately 426,000 feet of GIWW bankline between Bourg and Amelia to preserve shoreline integrity and reduce wetland degradation from wave erosion.
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Land Area	Moderate	Less Optimistic
Near Term (Year 20)	412 ac	537 ac
Long Term (Year 50)	381 ac	2760 ac

Project Cost Estimate	Planning/Engineering & Design	\$	23,690,000
	Estimated Cost Construction	\$	296,154,000
	Operations & Maintenance (50 years)	\$	243,370,000
	Total	\$	563,214,000

Point Au Fer Island

Shoreline Protection

Project ID: 03b.SP.02



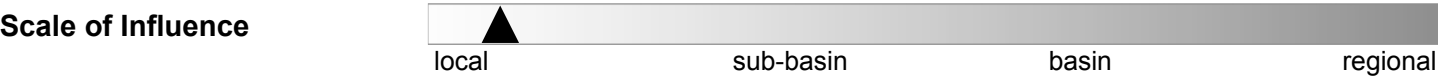
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b**
- Planning Unit 4



Project Source	WRDA Projects		
Project Status	Planning and Feasibility		
Description	Restoration of the barrier headland at Point Au Fer Island to create dune and beach habitat and provide storm surge and wave attenuation. NOTE: Project was modeled as a shoreline protection project because geographic coverage of the Barrier Morphology module did not extend to project footprint.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Land Area	Moderate	Less Optimistic	
Near Term (Year 20)	497 ac	702 ac	
Long Term (Year 50)	441 ac	815 ac	
Project Cost Estimate	Planning/Engineering & Design	\$	12,500,000
	Estimated Cost Construction	\$	156,291,000
	Operations & Maintenance (50 years)	\$	490,000
	Total	\$	169,281,000



Project Source	CWPPRA
Project Status	Engineering and Design
Description	Shoreline protection through rock breakwaters of approximately 36,000 feet of shoreline of East Cote Blanche Bay at Bayou Sale to preserve shoreline integrity and reduce wetland degradation from wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	153 ac	163 ac
Long Term (Year 50)	147 ac	166 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 2,020,000
Estimated Cost Construction		\$ 25,239,000
Operations & Maintenance (50 years)		\$ 12,230,000
Total		\$ 39,489,000



Project Source	Southwest Coastal Louisiana Feasibility Study		
Project Status	Planning and Feasibility		
Description	Shoreline protection through rock breakwaters of approximately 108,000 feet of Marsh Island shoreline to preserve shoreline integrity and reduce wetland degradation from wave erosion.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	269 ac	275 ac
	Long Term (Year 50)	259 ac	257 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 8,010,000
	Estimated Cost Construction		\$ 100,094,000
	Operations & Maintenance (50 years)		\$ 20,270,000
	Total		\$ 128,374,000

Vermilion Bay and West Cote Blanche Bay

Shoreline Protection

Project ID: 03b.SP.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 524,000 feet of shoreline along Vermilion Bay and West Cote Blanche Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1065 ac	1112 ac
Long Term (Year 50)	1028 ac	1334 ac

Project Cost Estimate

Planning/Engineering & Design	\$	28,930,000
Estimated Cost Construction	\$	361,601,000
Operations & Maintenance (50 years)	\$	176,310,000
Total	\$	566,841,000

Project ID: 03b.SP.07



Planning Unit 4



LACPR

Conceptual Phase

Shoreline protection through rock breakwaters of approximately 51,000 feet of shoreline along East Cote Blanche Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion.

local sub-basin basin regional

Less Optimistic

Near Term (Year 20)

88 ac

96 ac

Long Term (Year 50)

89 ac

99 ac

Planning/Engineering & Design

\$ 2,880,000

Estimated Cost Construction

\$ 35,989,000

Operations & Maintenance (50 years)

\$ 17,410,000

Total

\$ 56,279,000

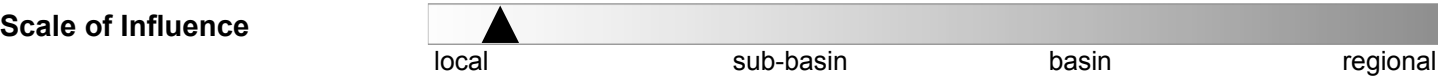
Southwest Pass (East Side)
Shoreline Protection
Project ID: 004.SP.04



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Southwest Coastal Louisiana Feasibility Study
Project Status	Conceptual Phase
Description	Shoreline protection through rock breakwaters of approximately 27,000 feet of Gulf shoreline along Southwest Pass west of Marsh Island to preserve shoreline integrity and reduce wetland degradation from wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	82 ac	151 ac
Long Term (Year 50)	143 ac	191 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 1,950,000
	Estimated Cost Construction	\$ 24,326,000
	Operations & Maintenance (50 years)	\$ 5,390,000
	Total	\$ 31,666,000

Project ID: 002.HP.05



Planning Unit 4



LACPR

Conceptual Phase/Planning and Feasibility

Construction of a levee to an elevation of 12-16.5 feet NAVD88 along the GIWW and Highway 90 between Larose and Morgan City and extending northward along Highway 70 to the south shore of Lake Verret for hurricane storm surge risk reduction. Project features include approximately 377,000 feet of earth levee, 22,000 feet of concrete T-wall, 11 56-foot sector gates, four 110-foot barge gates, and four 220-foot barge gates.

local sub-basin basin regional

Planning / Engineering & Design	\$	136,880,000
Estimated Cost Construction	\$	1,512,000,000
Operations & Maintenance (50 Years)	\$	340,800,000
Total	\$	1,989,680,000

Larose to Morgan City

Structural Protection

Project ID: 002.HP.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for all three storm surge events under the moderate scenario. N/A indicates that this project was not evaluated in the less optimistic scenario.

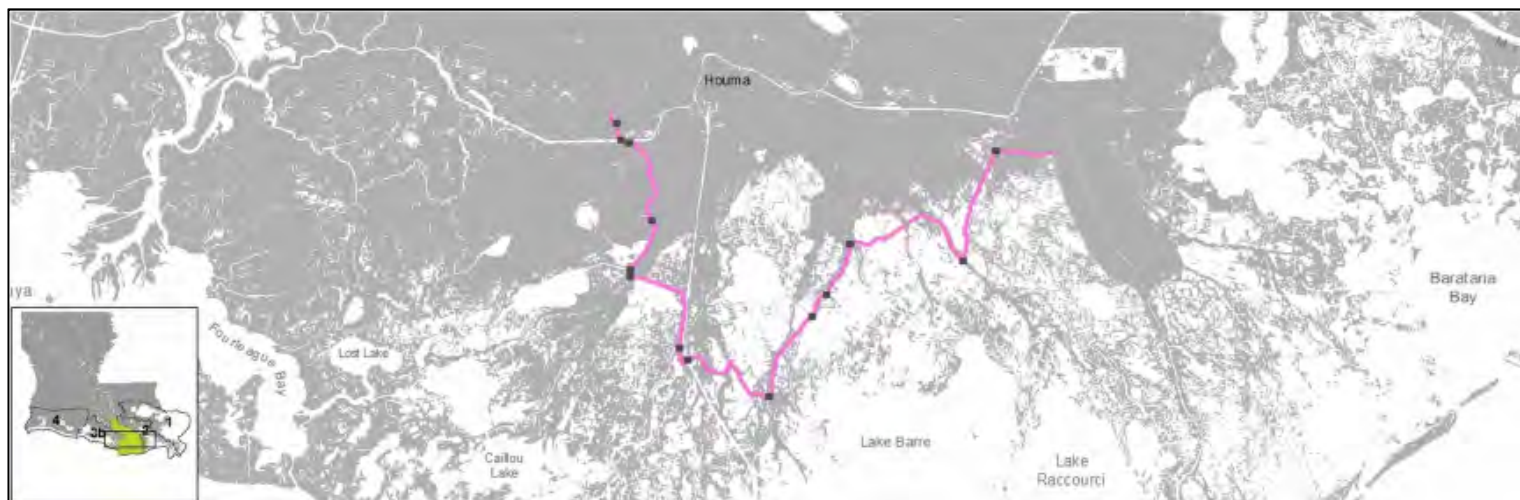
Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	\$1,035M	\$612M	\$1,521M	\$1,060M	\$2,437M	\$1,553M
Bayou Blue	\$1,328M	\$633M	\$1,794M	\$1,023M	\$2,101M	\$1,428M
Houma	\$20,401M	\$4,726M	\$30,642M	\$15,882M	\$46,016M	\$39,514M
Lafourche Parish	\$4,420M	\$3,763M	\$5,343M	\$4,511M	\$5,949M	\$5,380M
Mathews	\$6,143M	\$3,158M	\$6,703M	\$4,164M	\$7,542M	\$6,244M
Morgan City	\$6,523M	\$5,229M	\$10,099M	\$9,647M	\$12,011M	\$11,836M
Raceland	\$3,152M	\$1,114M	\$3,995M	\$1,706M	\$4,848M	\$3,452M
Saint Martin Parish	\$497M	\$264M	\$544M	\$450M	\$623M	\$530M
Saint Mary Parish	\$1,558M	\$1,254M	\$2,185M	\$1,628M	\$3,101M	\$2,548M
Terrebonne Parish	\$11,146M	\$8,169M	\$14,279M	\$11,751M	\$18,032M	\$15,529M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	N/A	N/A	N/A	N/A	N/A	N/A
Bayou Blue	N/A	N/A	N/A	N/A	N/A	N/A
Houma	N/A	N/A	N/A	N/A	N/A	N/A
Lafourche Parish	N/A	N/A	N/A	N/A	N/A	N/A
Mathews	N/A	N/A	N/A	N/A	N/A	N/A
Morgan City	N/A	N/A	N/A	N/A	N/A	N/A
Raceland	N/A	N/A	N/A	N/A	N/A	N/A
Saint Martin Parish	N/A	N/A	N/A	N/A	N/A	N/A
Saint Mary Parish	N/A	N/A	N/A	N/A	N/A	N/A
Terrebonne Parish	N/A	N/A	N/A	N/A	N/A	N/A

Project ID: 03a.HP.02a



Planning Unit 4



Description	Construction of a levee to an elevation of 12-28 feet NAVD88 around Houma and the Terrebonne ridge communities between Larose and Humphreys for hurricane storm surge risk reduction. Project features include approximately 319,000 feet of levee, 19,000 feet of concrete T-wall, four 56-foot sector gates, eight 110-foot barge gates, two 220-foot barge gates, and a lock complex on the Houma Navigation Canal.
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Scale of Influence

local sub-basin basin regional

Project Cost Estimate:	Planning / Engineering & Design	\$	207,670,000
	Estimated Cost Construction	\$	2,408,000,000
	Operations & Maintenance (50 Years)	\$	288,400,000
	Total	\$	2,904,070,000

Morganza to the Gulf (Low)

Structural Protection

Project ID: 03a.HP.02a



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for all the communities listed below except Larose for all three storm surge events under both scenarios. Model results indicate the project could lead to elevated water levels in Larose if no further upgrades are made to the Larose to Golden Meadow levee system.

Moderate Scenario		50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community		FWOA	FWP	FWOA	FWP	FWOA	FWP
Bayou Blue		\$1,328M	\$699M	\$1,794M	\$989M	\$2,101M	\$1,211M
Houma		\$20,401M	\$3,859M	\$30,642M	\$5,495M	\$46,016M	\$12,943M
Lafourche Parish		\$4,420M	\$3,468M	\$5,343M	\$4,200M	\$5,949M	\$4,851M
Larose		\$11,081M	\$11,159M	\$12,117M	\$13,521M	\$14,076M	\$15,197M
Mathews		\$6,143M	\$3,503M	\$6,703M	\$4,648M	\$7,542M	\$6,099M
Raceland		\$3,152M	\$1,306M	\$3,995M	\$1,659M	\$4,848M	\$2,237M
Terrebonne Parish		\$11,146M	\$7,360M	\$14,279M	\$9,668M	\$18,032M	\$13,106M

Less Optimistic Scenario		50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community		FWOA	FWP	FWOA	FWP	FWOA	FWP
Bayou Blue		\$1,971M	\$1,122M	\$2,183M	\$1,297M	\$2,298M	\$1,722M
Houma		\$41,492M	\$15,190M	\$55,841M	\$24,501M	\$61,983M	\$44,104M
Lafourche Parish		\$6,152M	\$5,153M	\$6,561M	\$5,643M	\$6,932M	\$6,212M
Larose		\$11,314M	\$11,441M	\$12,086M	\$13,598M	\$13,983M	\$15,319M
Mathews		\$7,060M	\$4,919M	\$7,555M	\$6,025M	\$7,917M	\$6,645M
Raceland		\$4,615M	\$2,732M	\$4,995M	\$3,451M	\$5,353M	\$3,906M
Terrebonne Parish		\$15,558M	\$13,048M	\$18,063M	\$14,354M	\$19,306M	\$15,373M

Amelia Levee Improvements (2E)

Structural Protection

Project ID: 03b.HP.07



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b**
- Planning Unit 4



Project Source	St. Mary Parish Master Plan
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 18.0 feet around Amelia for hurricane storm surge risk reduction. Project features include approximately 42,000 feet of earthen levee and two pumps with a combined capacity of 960 cfs.



Project Cost Estimate:	Planning / Engineering & Design	\$	13,100,000
	Estimated Cost Construction	\$	138,000,000
	Operations & Maintenance (50 Years)	\$	28,700,000
	Total	\$	179,800,000

Amelia Levee Improvements (2E)

Structural Protection

Project ID: 03b.HP.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for Saint Mary Parish for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Saint Mary Parish	\$1,558M	\$624M	\$2,185M	\$910M	\$3,101M	\$1,621M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Saint Mary Parish	\$2,325M	\$873M	\$2,769M	\$1,263M	\$5,606M	\$4,050M

Amelia Levee Improvements (1E)

Structural Protection

Project ID: 03b.HP.09



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b**
- Planning Unit 4



Project Source	St. Mary Parish Master Plan
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 16.5 feet NAVD88 south of Highway 90 between Gibson and Morgan City for hurricane storm surge risk reduction. Project features include approximately 64,000 feet of earthen levee, 1,500 feet of concrete T-wall, and one 220-foot barge gate.



Project Cost Estimate:	Planning / Engineering & Design	\$	19,500,000
	Estimated Cost Construction	\$	205,000,000
	Operations & Maintenance (50 Years)	\$	53,000,000
	Total	\$	277,500,000

Amelia Levee Improvements (1E)

Structural Protection

Project ID: 03b.HP.09



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA to the communities listed below for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	\$1,035M	\$621M	\$1,521M	\$1,007M	\$2,437M	\$1,694M
Morgan City	\$6,523M	\$5,880M	\$10,099M	\$9,858M	\$12,011M	\$11,814M
Saint Martin Parish	\$497M	\$236M	\$544M	\$300M	\$623M	\$376M
Saint Mary Parish	\$1,558M	\$615M	\$2,185M	\$980M	\$3,101M	\$1,783M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Assumption Parish	\$2,289M	\$1,656M	\$2,812M	\$2,133M	\$3,915M	\$2,937M
Morgan City	\$10,527M	\$8,652M	\$12,045M	\$11,000M	\$16,781M	\$16,433M
Saint Martin Parish	\$558M	\$467M	\$660M	\$529M	\$873M	\$630M
Saint Mary Parish	\$2,325M	\$1,230M	\$2,769M	\$1,872M	\$5,606M	\$5,162M

Assumption Parish - Rural Areas

Nonstructural BFE + 1

Project ID: ASU.050.1



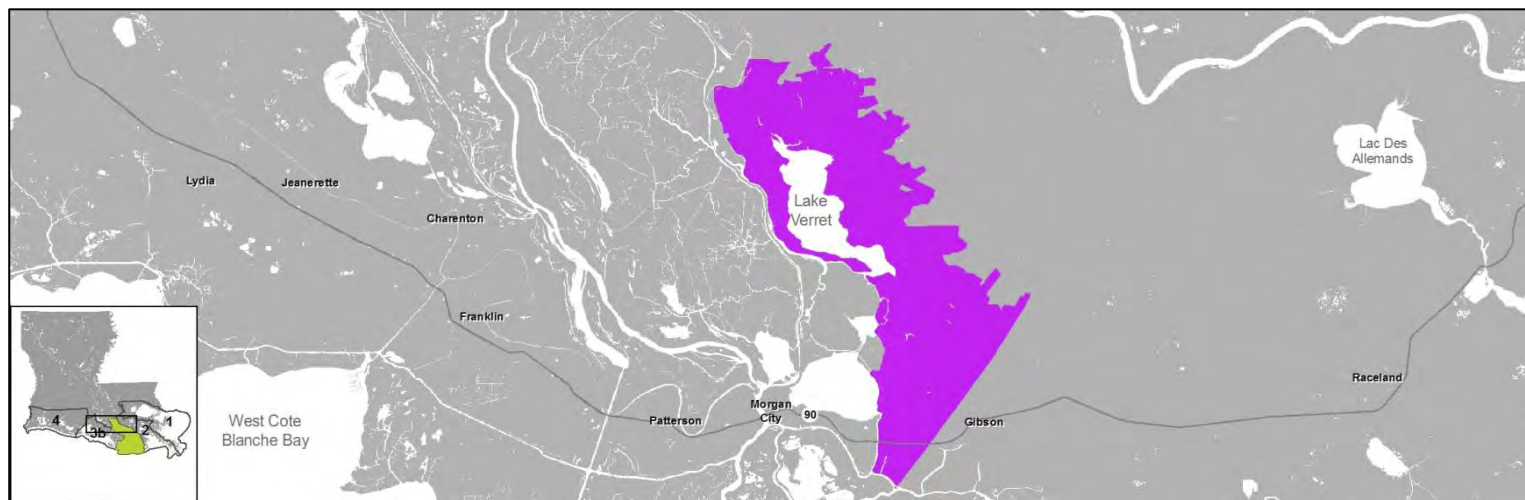
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Assumption Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1035M	\$338M	\$2289M	\$790M
100 Year Event	\$1521M	\$539M	\$2812M	\$1020M
500 Year Event	\$2437M	\$895M	\$3915M	\$1903M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	2460	\$	149,001,000
Residential Elevated	940	\$	141,138,000
Voluntary Residential Acquired	0	\$	-
Total	3400	\$	290,139,000

Assumption Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: ASU.050.2



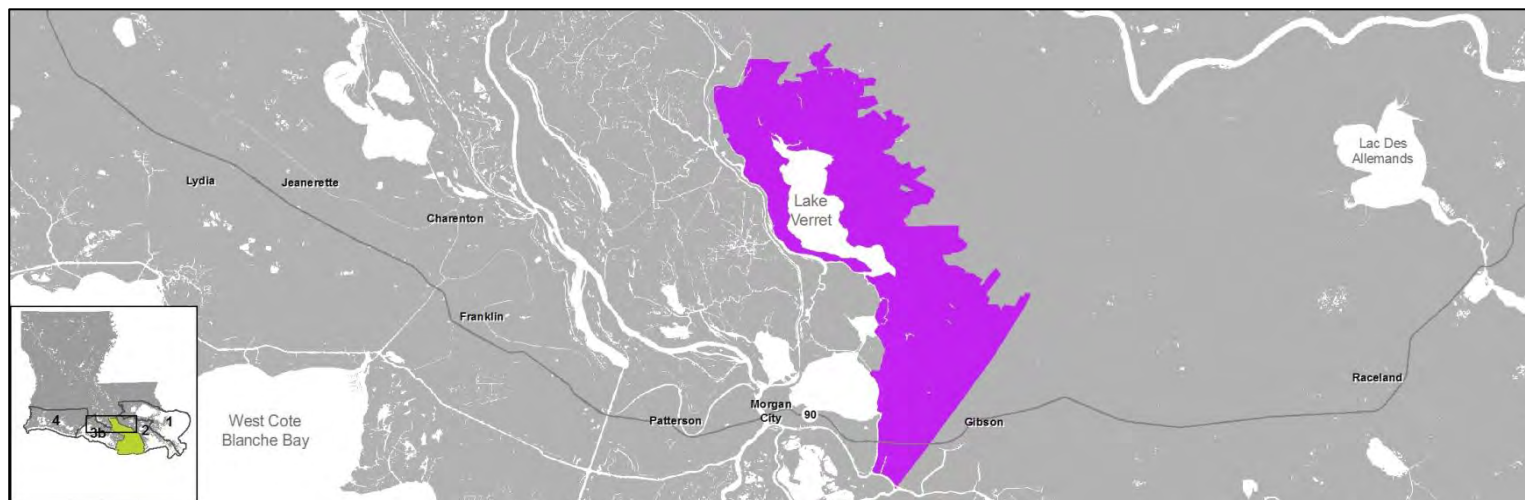
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Assumption Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1035M	\$353M	\$2289M	\$814M
100 Year Event	\$1521M	\$562M	\$2812M	\$1033M
500 Year Event	\$2437M	\$910M	\$3915M	\$1881M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	160	\$	108,646,000
Residential Elevated	3150	\$	502,821,000
Voluntary Residential Acquired	0	\$	-
Total	3310	\$	611,467,000

Baldwin/Charenton

Nonstructural BFE + 1

Project ID: BAL.100.1



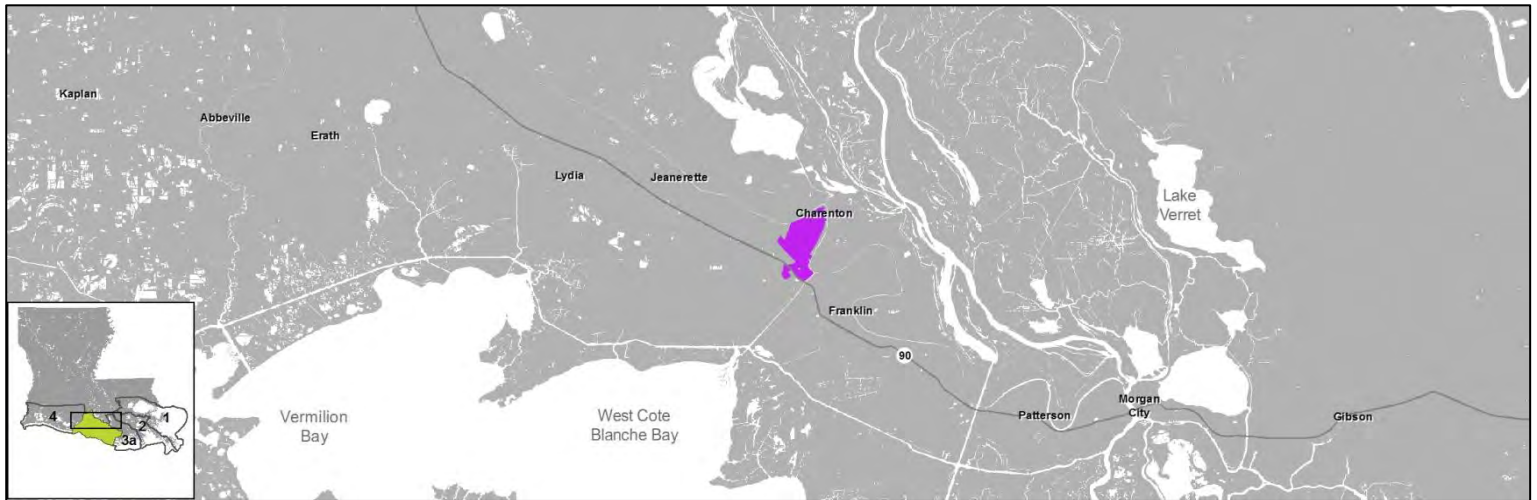
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Baldwin and Charenton.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$34M	\$12M	\$51M	\$20M
100 Year Event	\$69M	\$36M	\$126M	\$92M
500 Year Event	\$208M	\$173M	\$355M	\$341M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	90	\$	6,819,000
Residential Elevated	10	\$	873,000
Voluntary Residential Acquired	0	\$	-
Total	100	\$	7,692,000

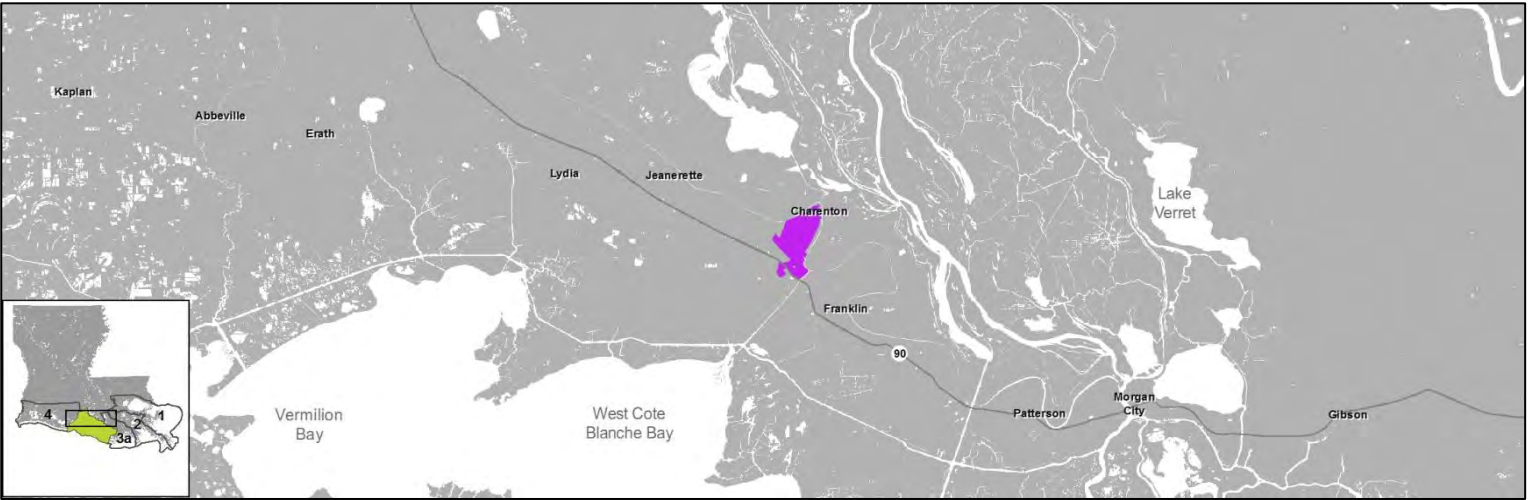
Baldwin/Charenton (High)

Nonstructural BFE + 4

Project ID: BAL.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

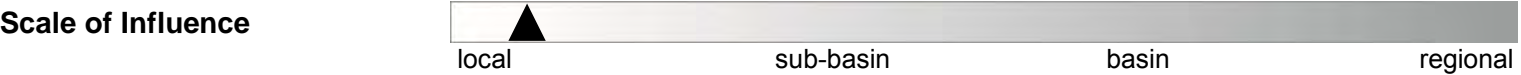


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Baldwin and Charenton.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$34M	\$13M	\$51M	\$20M
100 Year Event	\$69M	\$35M	\$126M	\$86M
500 Year Event	\$208M	\$164M	\$355M	\$305M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	4,736,000
	Residential Elevated	240	\$	34,666,000
	Voluntary Residential Acquired	0	\$	-
	Total	250	\$	39,402,000

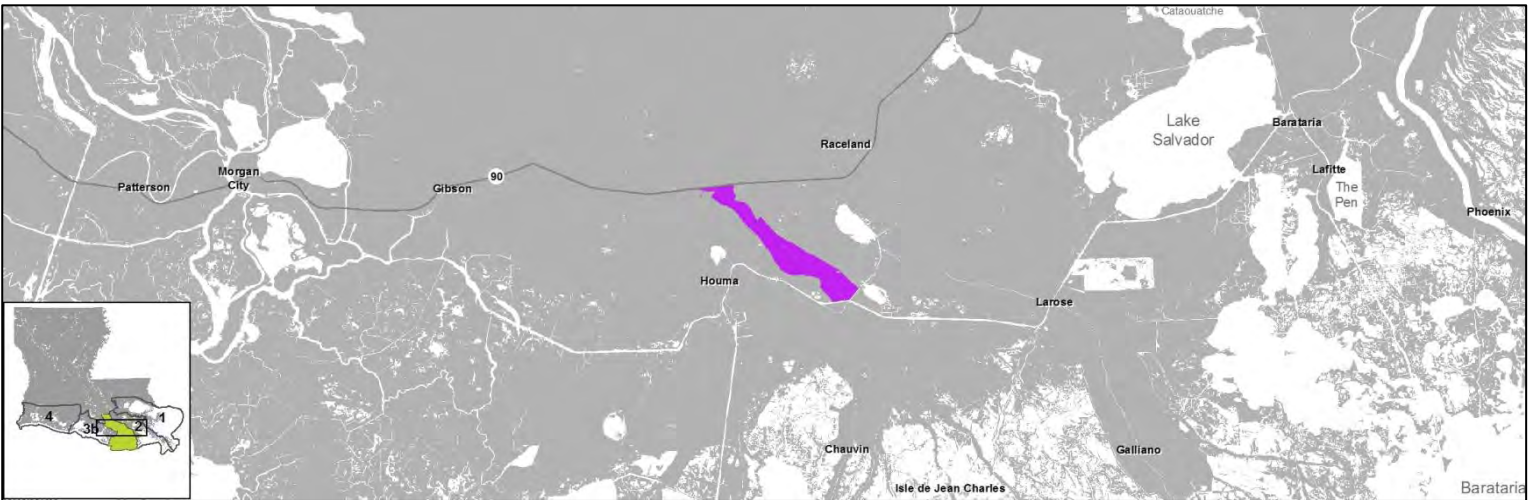
Bayou Blue

Nonstructural BFE + 1

Project ID: BBL100.1



Planning Unit 1 Planning Unit 2 **Planning Unit 3a** Planning Unit 3b Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Bayou Blue.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1328M	\$1147M	\$1971M	\$1810M
100 Year Event	\$1794M	\$1637M	\$2183M	\$2090M
500 Year Event	\$2101M	\$2008M	\$2298M	\$2252M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	180	\$	12,116,000
Residential Elevated	220	\$	35,347,000
Voluntary Residential Acquired	0	\$	-
Total	400	\$	47,463,000

Bayou Blue (High)

Nonstructural BFE + 4

Project ID: BBL100.2



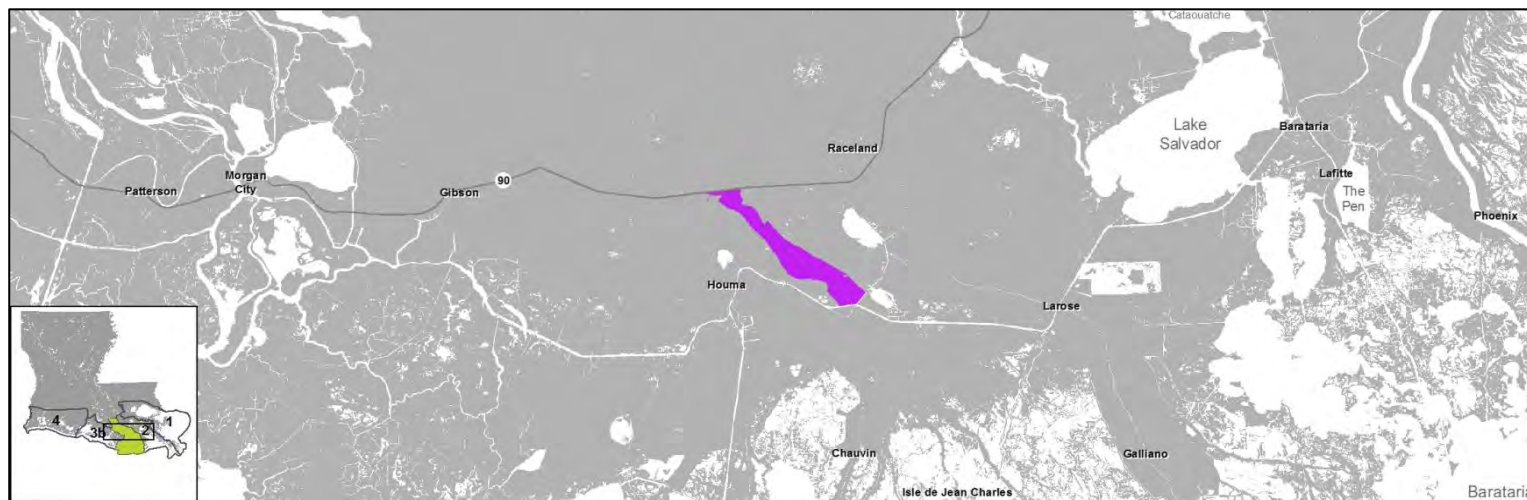
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Bayou Blue.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$1328M	\$1126M	\$1971M	\$1774M
100 Year Event	\$1794M	\$1599M	\$2183M	\$2034M
500 Year Event	\$2101M	\$1949M	\$2298M	\$2166M

Project Cost Estimate

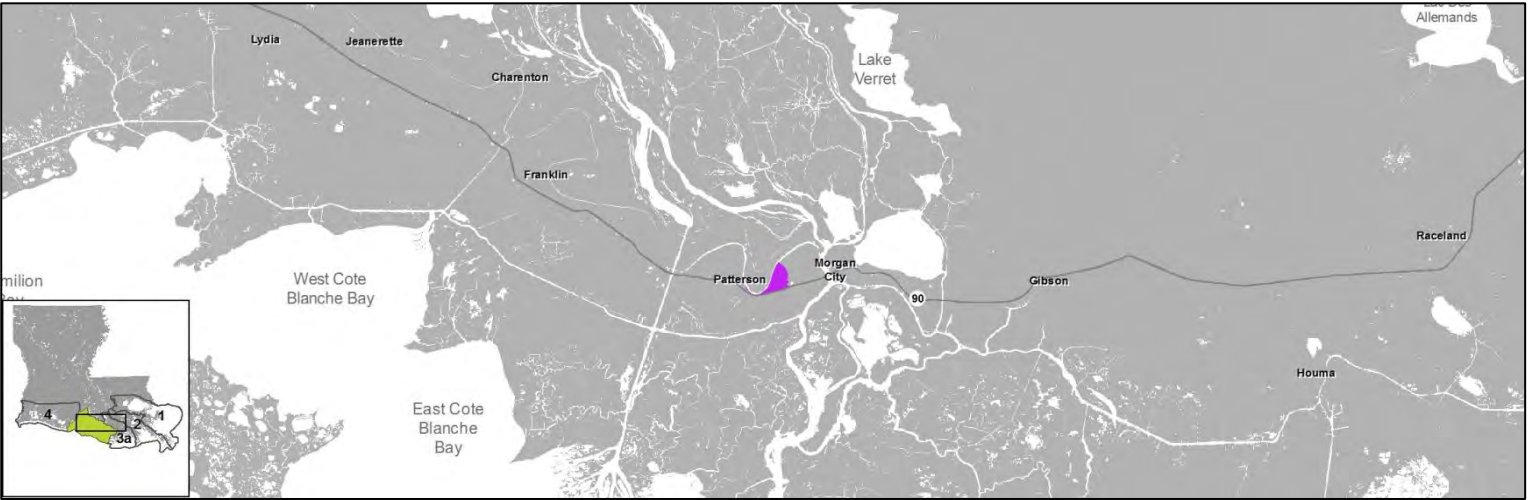
**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	7,369,000
Residential Elevated	440	\$	71,144,000
Voluntary Residential Acquired	0	\$	-
Total	450	\$	78,513,000

Bayou Vista
Nonstructural BFE + 1
Project ID: BVI.100.1



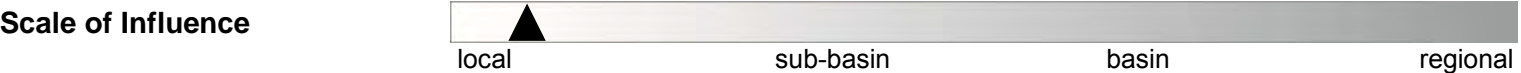
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source: Developed for the 2012 Coastal Master Plan

Project Status: Conceptual Phase

Description: Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Bayou Vista. Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction

FWOA = Future without Action
FWP = Future with Project

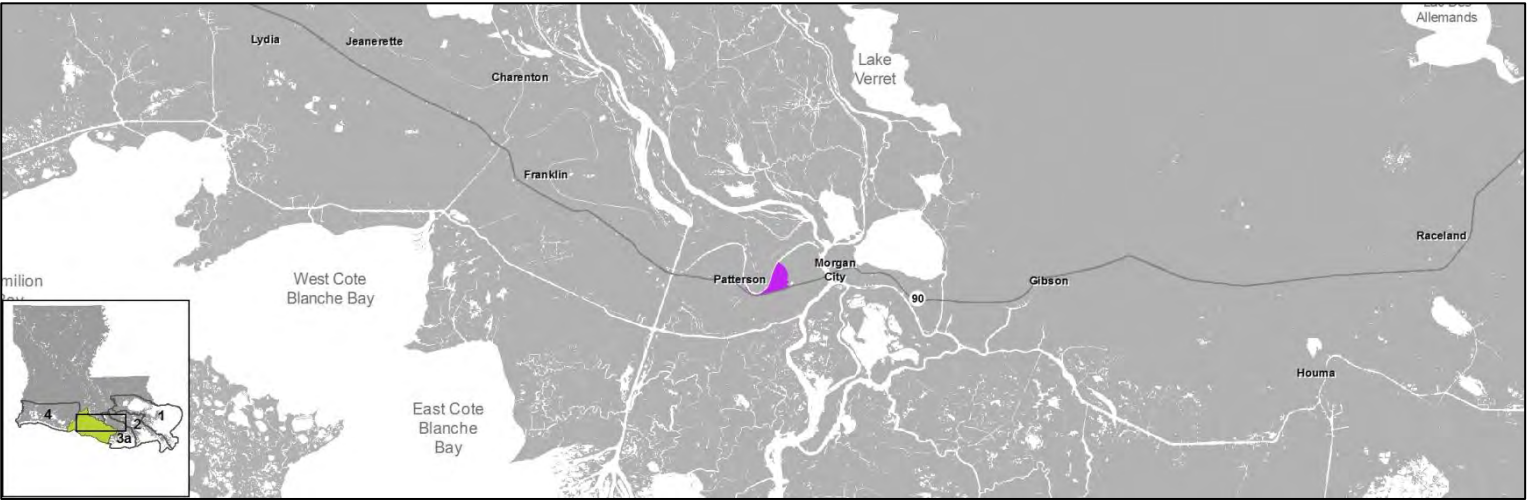
	Moderate FWOA	Moderate FWP	Less Optimistic FWOA	Less Optimistic FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$4291M	\$4284M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*	Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	200	\$ 23,424,000
	Residential Elevated	10	\$ 52,000
	Voluntary Residential Acquired	0	\$ -
	Total	210	\$ 23,476,000

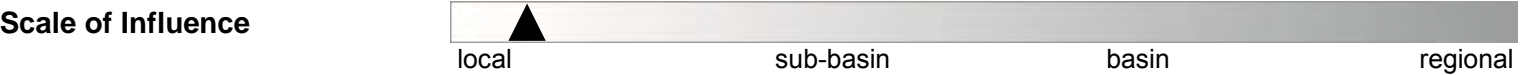
Bayou Vista (High)
 Nonstructural BFE + 4
 Project ID: BVI.100.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Developed for the 2012 Coastal Master Plan
Project Status	Conceptual Phase
Description	<p>Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Bayou Vista.</p> <p>Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.</p>



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$4291M	\$4111M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	30	\$	18,144,000
	Residential Elevated	500	\$	74,950,000
	Voluntary Residential Acquired	0	\$	-
	Total	530	\$	93,094,000

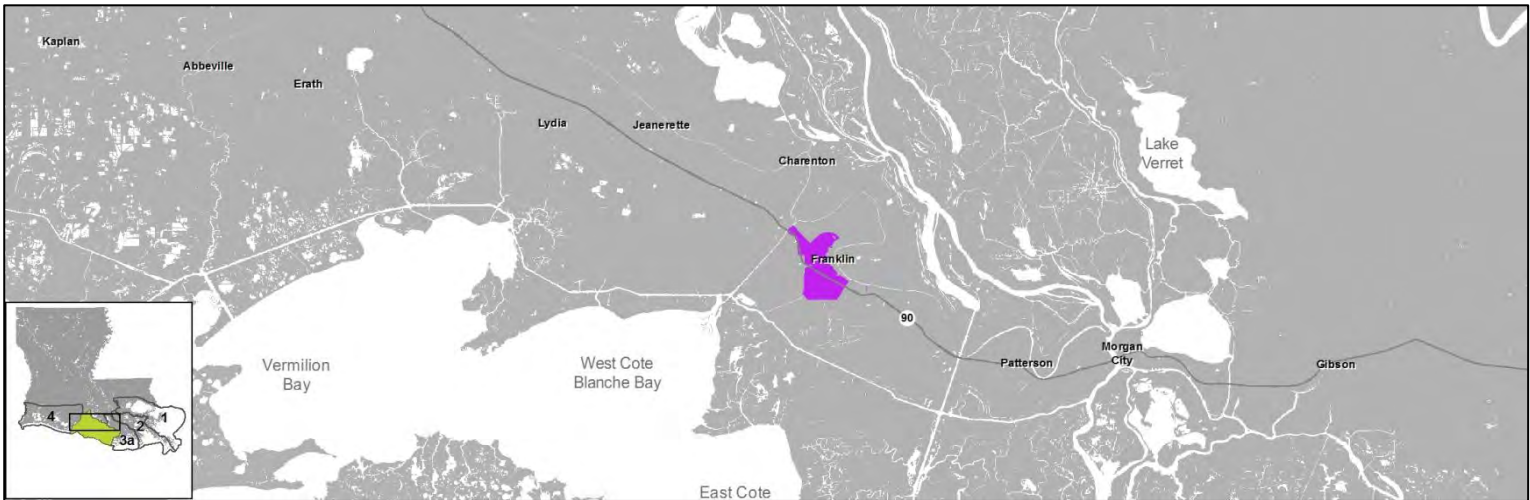
Franklin

Nonstructural BFE + 1

Project ID: FRA.100.1



Planning Unit 1 Planning Unit 2 Planning Unit 3a **Planning Unit 3b** Planning Unit 4

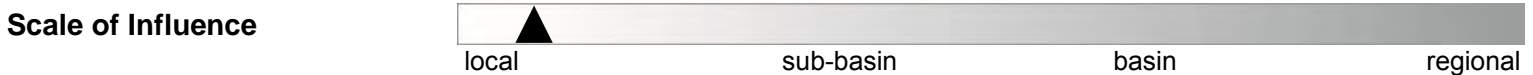


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Franklin.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$80M	\$71M	\$717M	\$288M
100 Year Event	\$765M	\$306M	\$1852M	\$1161M
500 Year Event	\$2596M	\$1876M	\$3117M	\$2370M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	790	\$	72,896,000
	Residential Elevated	300	\$	40,068,000
	Voluntary Residential Acquired	0	\$	-
	Total	1090	\$	112,964,000

Franklin (High)

Nonstructural BFE + 4

Project ID: FRA.100.2



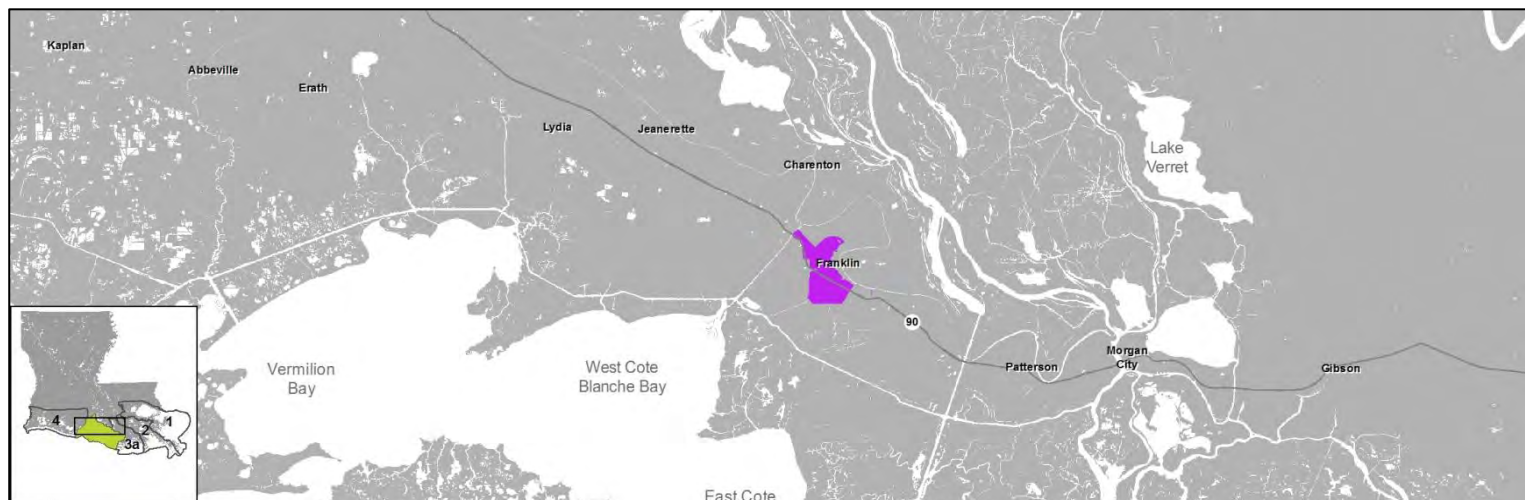
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Franklin.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

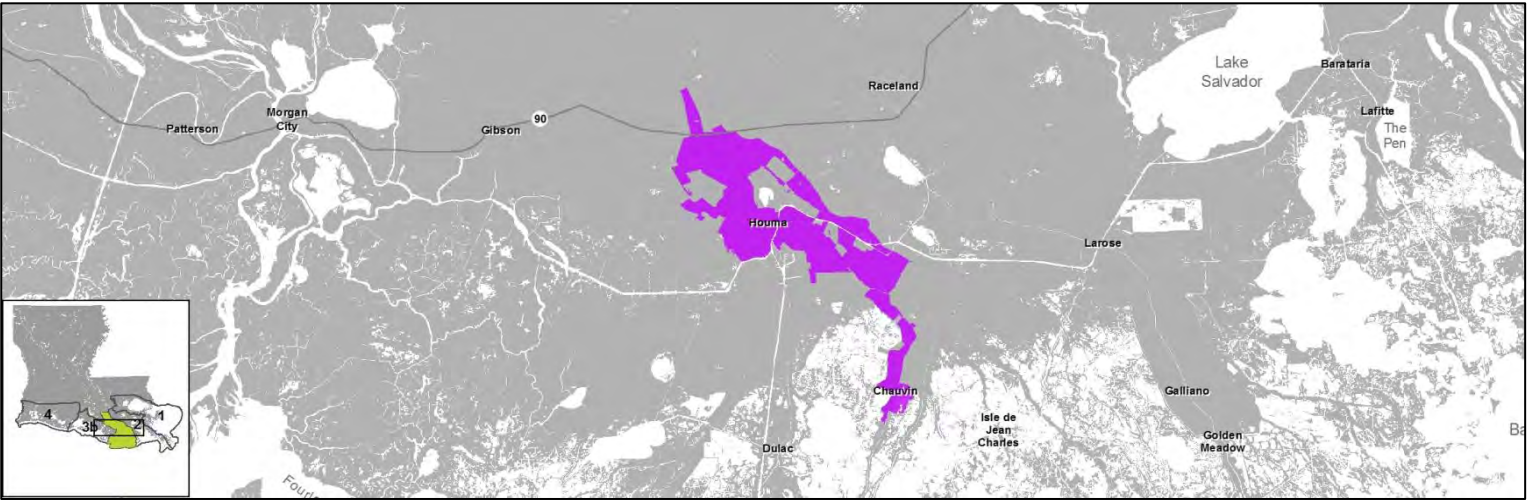
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$80M	\$71M	\$717M	\$294M
100 Year Event	\$765M	\$309M	\$1852M	\$1122M
500 Year Event	\$2596M	\$1757M	\$3117M	\$2198M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	90	\$	55,803,000
Residential Elevated	1180	\$	171,472,000
Voluntary Residential Acquired	0	\$	-
Total	1270	\$	227,275,000



Project Source: Developed for the 2012 Coastal Master Plan
Project Status: Conceptual Phase
Description: Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Houma, Bayou Cane, Bourg, Chauvin, Gray, and Presquille.
Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

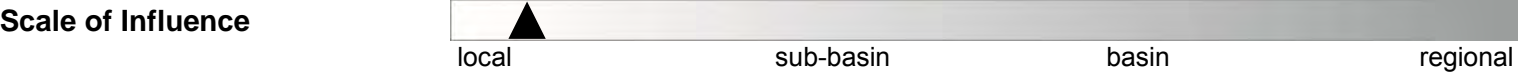
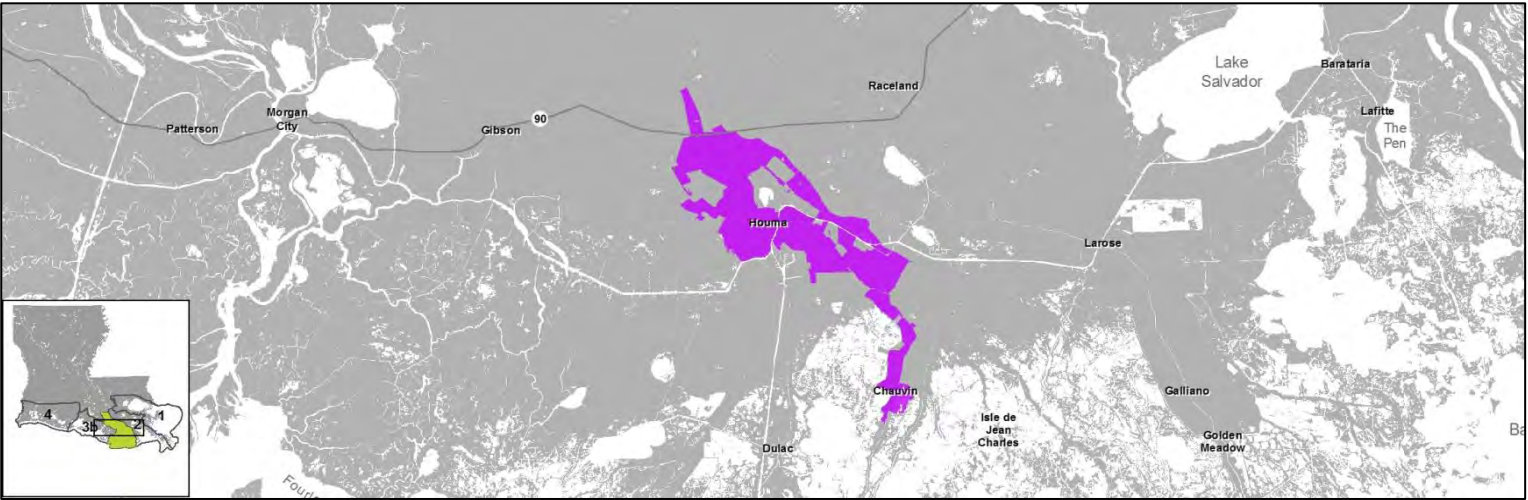


Table with 5 columns: Event Type, Moderate FWOA, Moderate FWP, Less Optimistic FWOA, Less Optimistic FWP. Rows include 50 Year Event, 100 Year Event, and 500 Year Event.

Table with 4 columns: Nonstructural Measure, Estimated Number of Structures*, Cost. Rows include Floodproofed, Residential Elevated, Voluntary Residential Acquired, and Total.

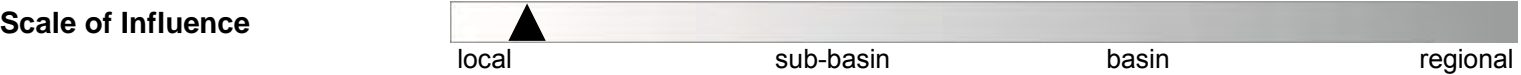


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures in the communities of Houma, Bayou Cane, Bourg, Chauvin, Gray, and Presquille.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$20401M	\$15287M	\$41492M	\$33519M
100 Year Event	\$30642M	\$24446M	\$55841M	\$47170M
500 Year Event	\$46016M	\$38684M	\$61983M	\$54618M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*	Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	740	\$ 491,462,000
	Residential Elevated	14170	\$ 2,334,248,000
	Voluntary Residential Acquired	60	\$ 29,079,000
	Total	14970	\$ 2,854,789,000

Iberia Parish - Rural Areas

Nonstructural BFE + 1

Project ID: IBE.050.1



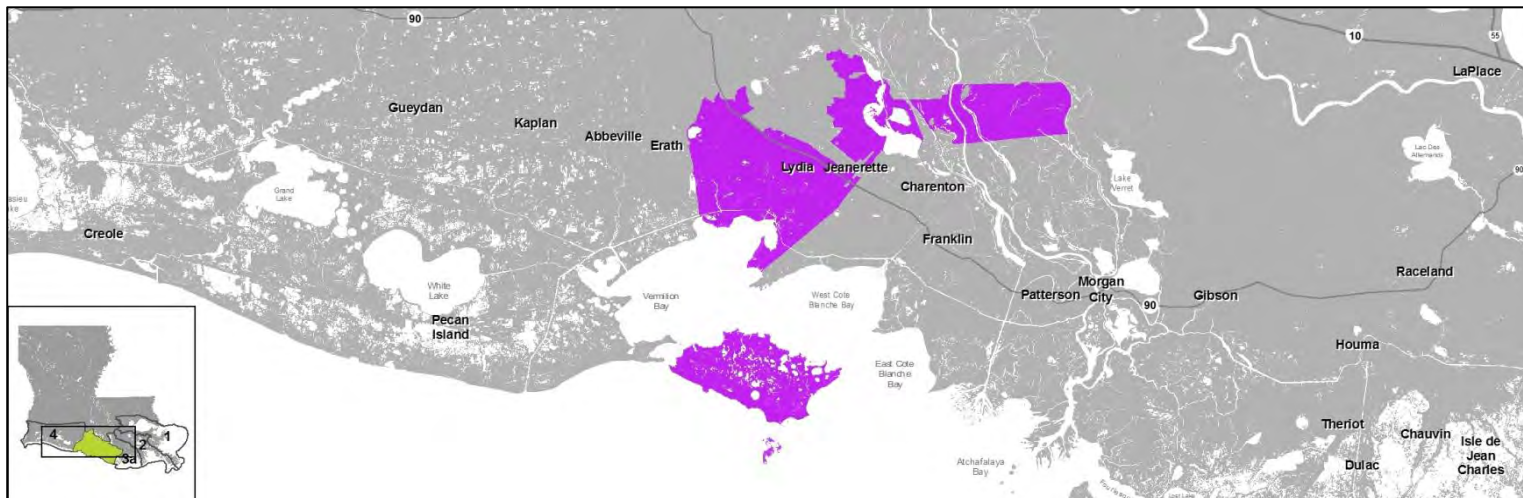
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Iberia Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2388M	\$1727M	\$3785M	\$2439M
100 Year Event	\$4515M	\$2928M	\$7436M	\$5543M
500 Year Event	\$8651M	\$6648M	\$10889M	\$9260M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	1660	\$	178,305,000	
Residential Elevated	1450	\$	231,154,000	
Voluntary Residential Acquired	0	\$	-	
Total	3110	\$	409,459,000	

Iberia Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: IBE.050.2



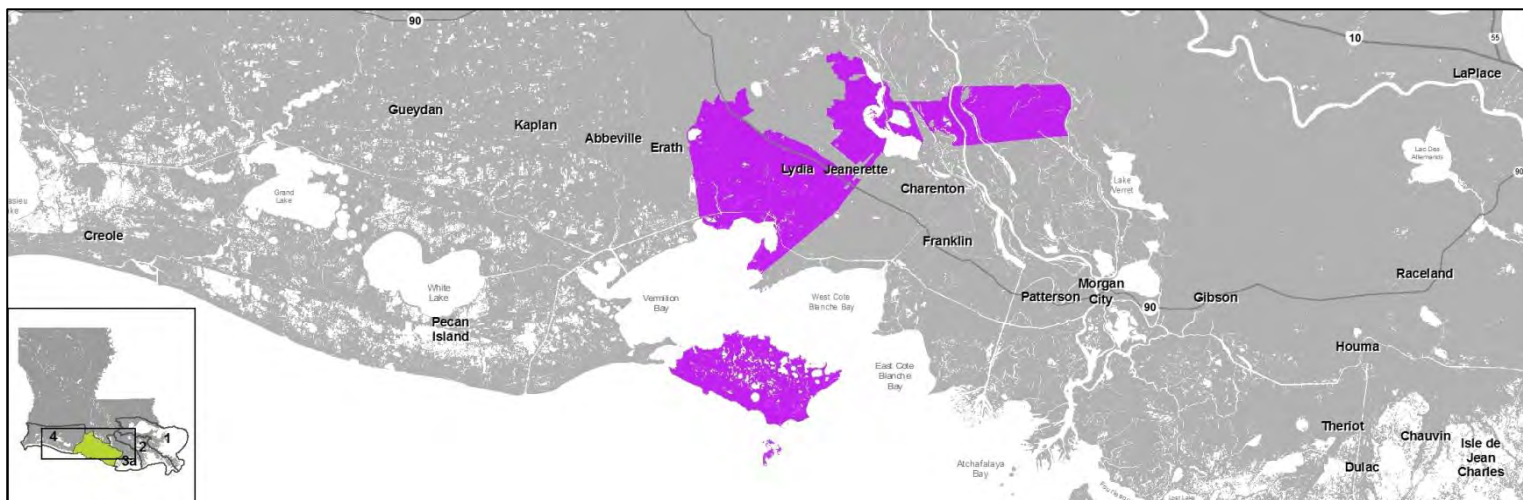
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Iberia Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2388M	\$1728M	\$3785M	\$2438M
100 Year Event	\$4515M	\$2902M	\$7436M	\$5304M
500 Year Event	\$8651M	\$6287M	\$10889M	\$8559M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	190	\$	144,426,000
Residential Elevated	3500	\$	563,993,000
Voluntary Residential Acquired	0	\$	-
Total	3690	\$	708,419,000

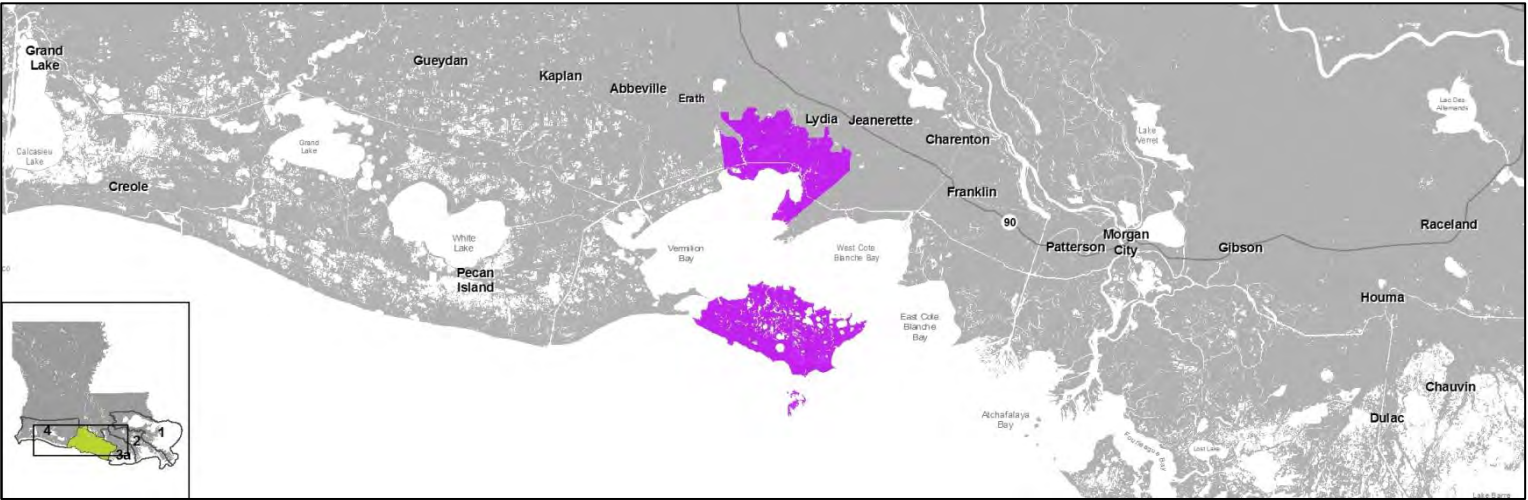
South Iberia Parish - Rural Areas

Nonstructural BFE + 1

Project ID: IBE.050.3



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

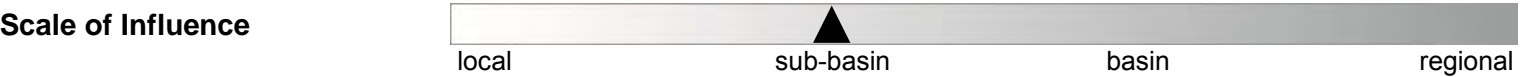
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of the Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$122M	\$105M	\$135M	\$118M
100 Year Event	\$134M	\$117M	\$216M	\$213M
500 Year Event	\$219M	\$217M	\$226M	\$224M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	40	\$	3,151,000
	Residential Elevated	80	\$	12,565,000
	Voluntary Residential Acquired	0	\$	-
	Total	120	\$	15,716,000

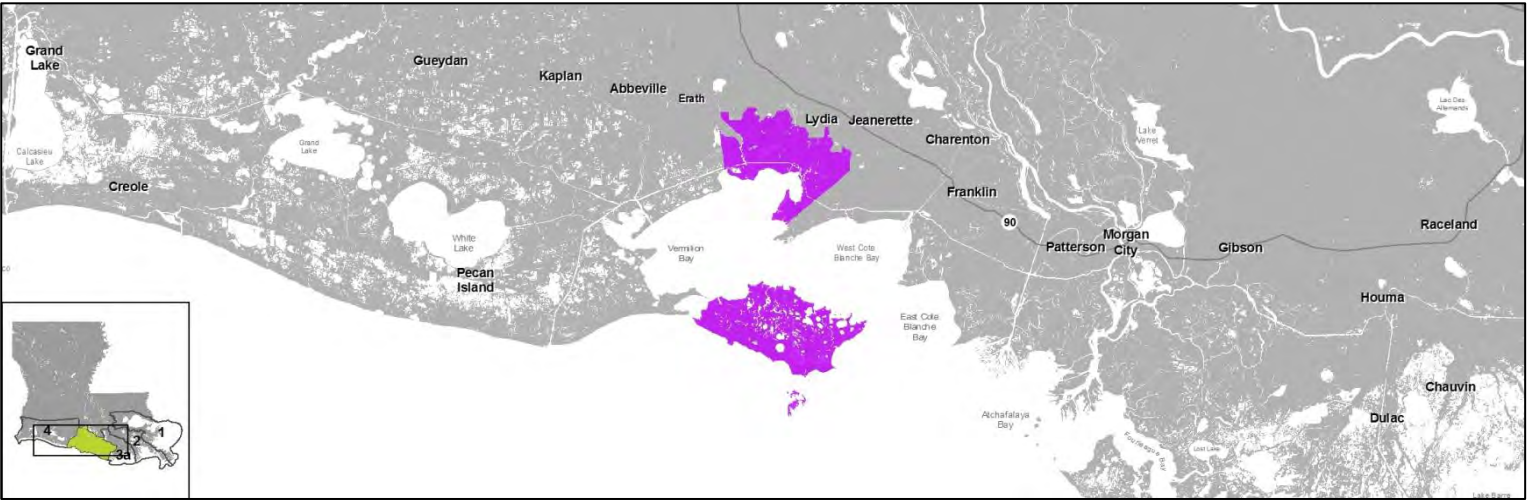
South Iberia Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: IBE.050.4



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

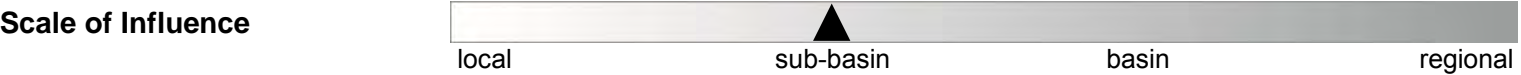
Project Status

Conceptual Phase

Description

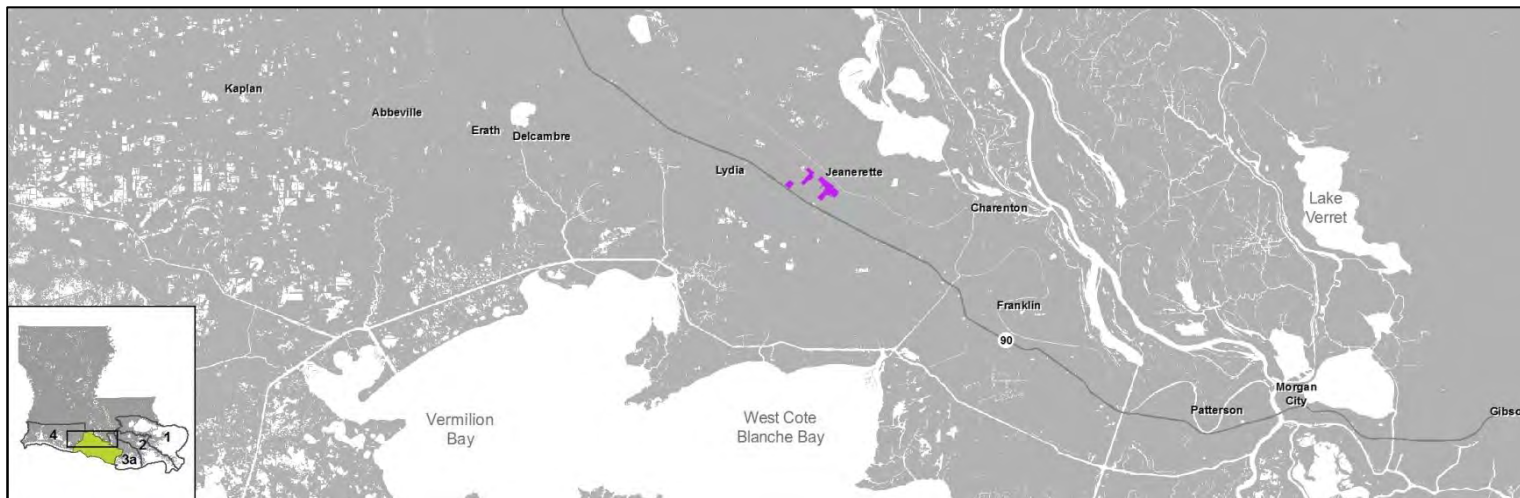
Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of southern Iberia Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$122M	\$105M	\$135M	\$117M
100 Year Event	\$134M	\$116M	\$216M	\$197M
500 Year Event	\$219M	\$200M	\$226M	\$222M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	10	\$	2,316,000
	Residential Elevated	110	\$	17,775,000
	Voluntary Residential Acquired	0	\$	-
	Total	120	\$	20,091,000



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Commercial and residential floodproofing to 3 feet in the community of Jeanerette.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$160M	\$160M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	30	\$	1,600,000
Residential Elevated	0	\$	-
Voluntary Residential Acquired	0	\$	-
Total	30	\$	1,600,000

Jeanerette (High)

Nonstructural BFE + 4

Project ID: JEA.100.2



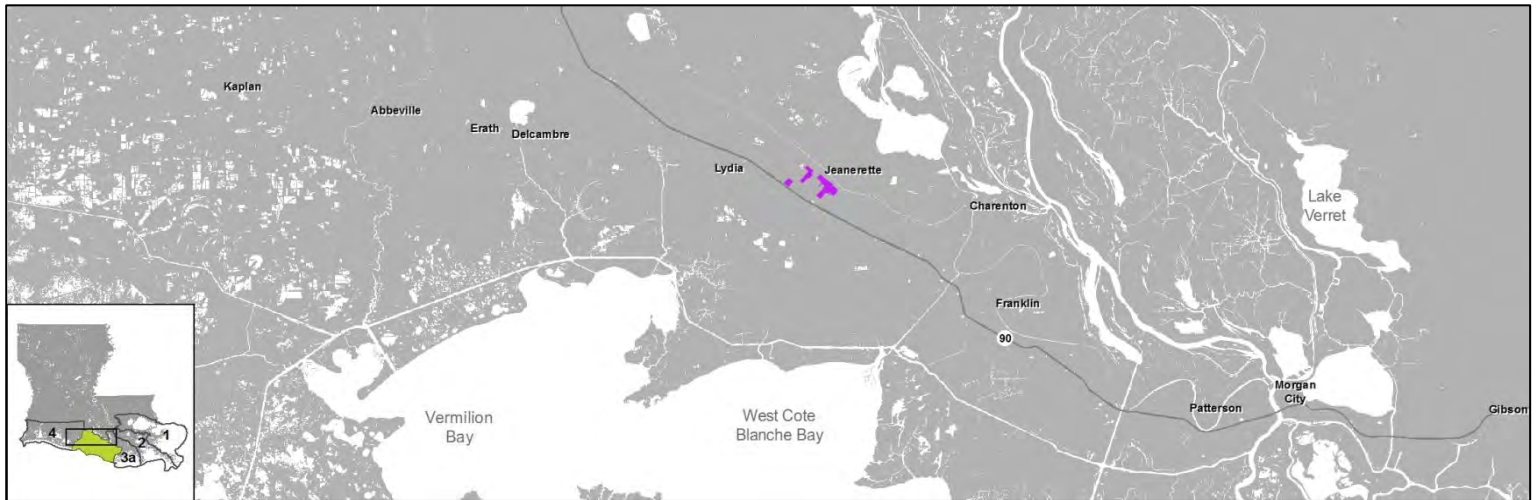
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Jeanerette.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$160M	\$154M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	930,000
Residential Elevated	160	\$	22,951,000
Voluntary Residential Acquired	0	\$	-
Total	170	\$	23,881,000



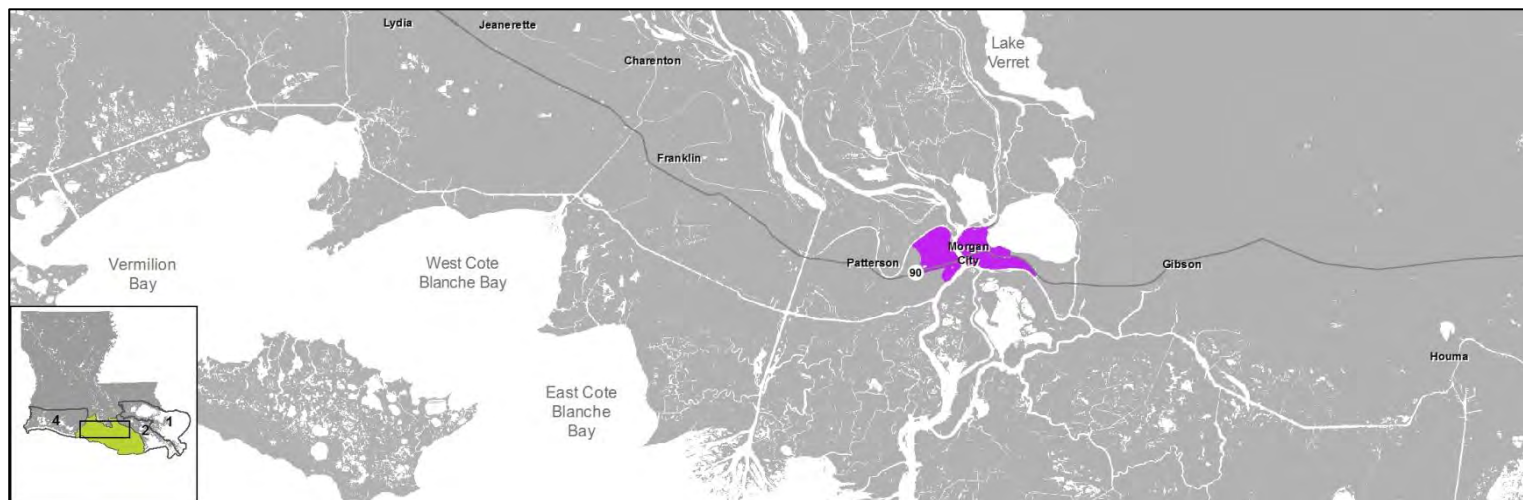
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Morgan City, Berwick, and Siracusaville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



**Estimated Damages
Risk Reduction**

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$6523M	\$4397M	\$10527M	\$8682M
100 Year Event	\$10099M	\$8190M	\$12045M	\$10240M
500 Year Event	\$12011M	\$10183M	\$16781M	\$15621M

Project Cost Estimate

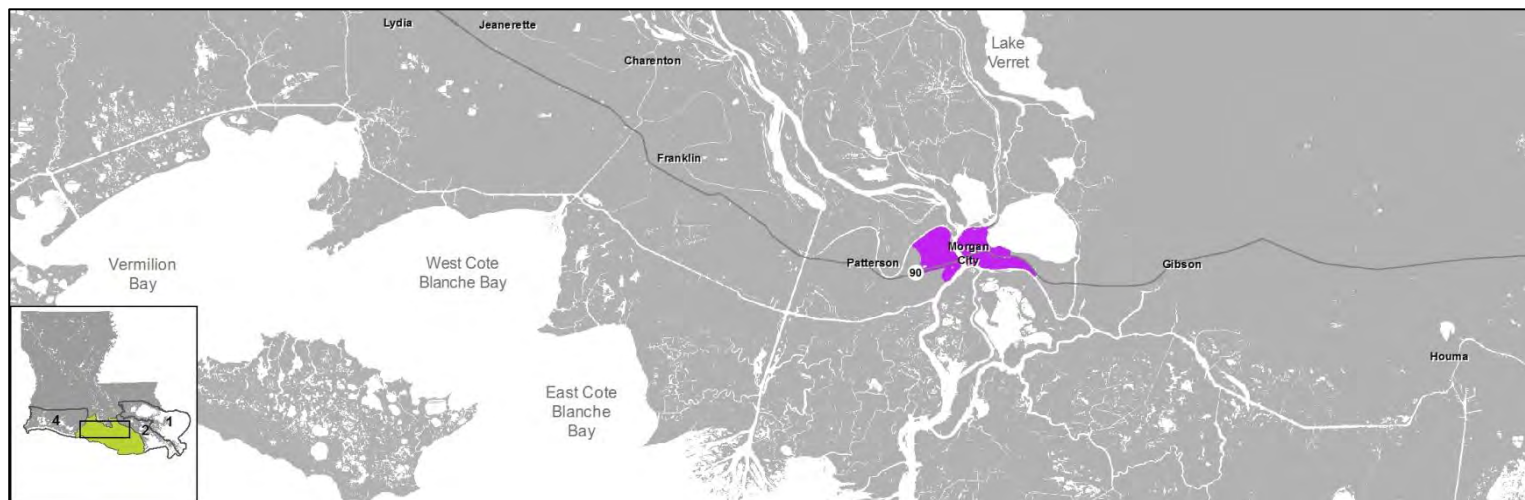
**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1320	\$	174,383,000
Residential Elevated	1320	\$	211,281,000
Voluntary Residential Acquired	0	\$	-
Total	2640	\$	385,664,000

Project ID: MOR.100.2



Planning Unit 4



Developed for the 2012 Coastal Master Plan

Conceptual Phase

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Morgan City, Berwick, and Siracusaville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

local sub-basin basin regional

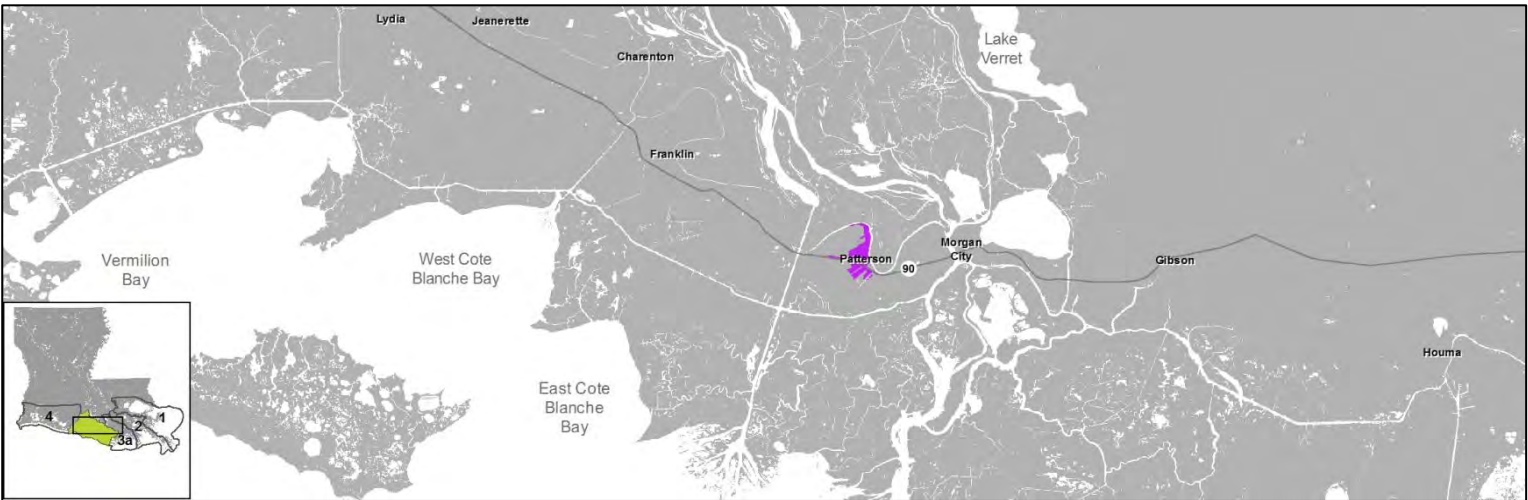
Risk Reduction

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$6523M	\$4298M	\$10527M	\$8074M
100 Year Event	\$10099M	\$7670M	\$12045M	\$9500M
500 Year Event	\$12011M	\$9465M	\$16781M	\$14705M

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	220	\$	139,118,000
Residential Elevated	3510	\$	572,129,000
Voluntary Residential Acquired	0	\$	-
Total	3730	\$	711,247,000

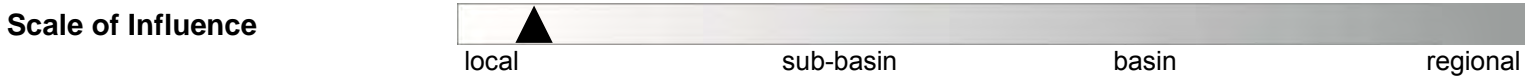


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Commercial and residential floodproofing to 3 feet in the community of Patterson.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
<i>FWOA = Future without Action</i> <i>FWP = Future with Project</i>				
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$6074M	\$6041M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
<i>*Does not represent specific houses and businesses to be protected.</i>	Floodproofed	110	\$	10,081,000
	Residential Elevated	0	\$	-
	Voluntary Residential Acquired	0	\$	-
	Total	110	\$	10,081,000

Patterson (High)

Nonstructural BFE + 4

Project ID: PAT.100.2



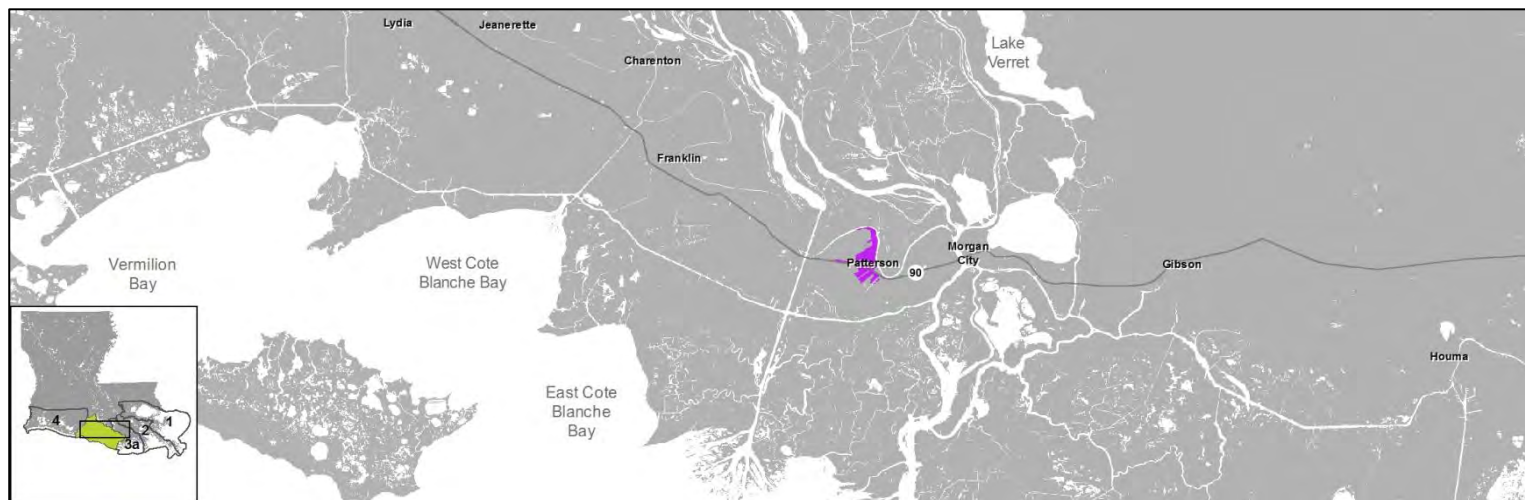
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Patterson.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$0M	\$0M
500 Year Event	\$0M	\$0M	\$6074M	\$6005M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	10	\$	7,200,000
Residential Elevated	520	\$	80,457,000
Voluntary Residential Acquired	0	\$	-
Total	530	\$	87,657,000

Saint Martin Parish - Rural Areas

Nonstructural BFE + 1

Project ID: SMT.050.1



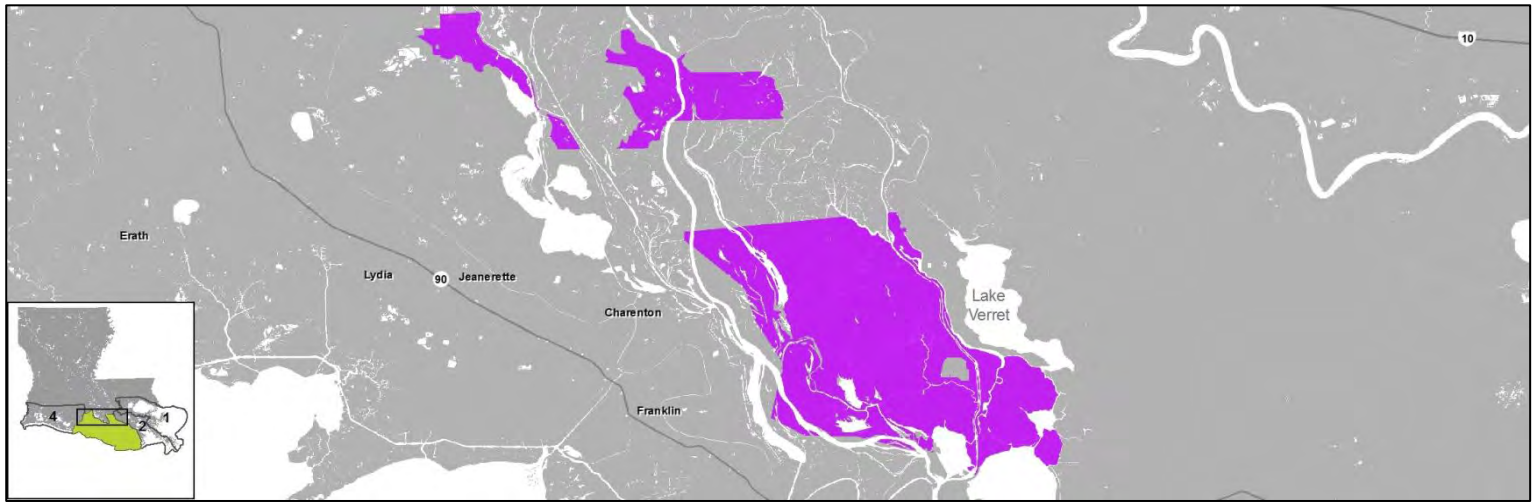
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Saint Martin Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$497M	\$194M	\$558M	\$221M
100 Year Event	\$544M	\$219M	\$660M	\$306M
500 Year Event	\$623M	\$291M	\$873M	\$524M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	290	\$	25,790,000
Residential Elevated	560	\$	82,942,000
Voluntary Residential Acquired	0	\$	-
Total	850	\$	108,732,000

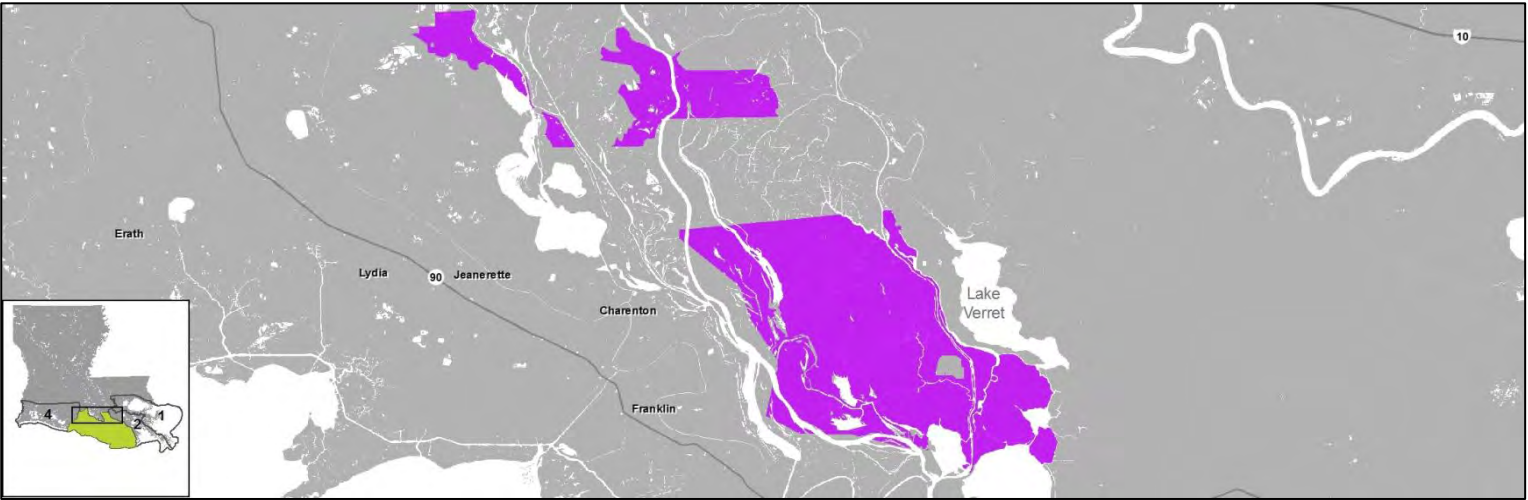
Saint Martin Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: SMT.050.2



Planning Unit 1	Planning Unit 2	Planning Unit 3a	Planning Unit 3b	Planning Unit 4
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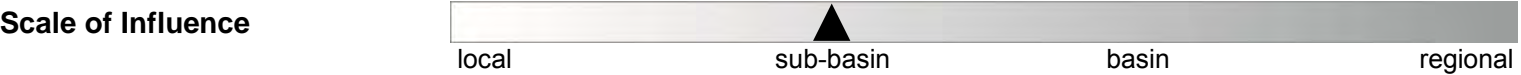


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Saint Martin Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$497M	\$195M	\$558M	\$221M
100 Year Event	\$544M	\$220M	\$660M	\$286M
500 Year Event	\$623M	\$271M	\$873M	\$448M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	30	\$	21,986,000
	Residential Elevated	800	\$	132,094,000
	Voluntary Residential Acquired	0	\$	-
	Total	830	\$	154,080,000

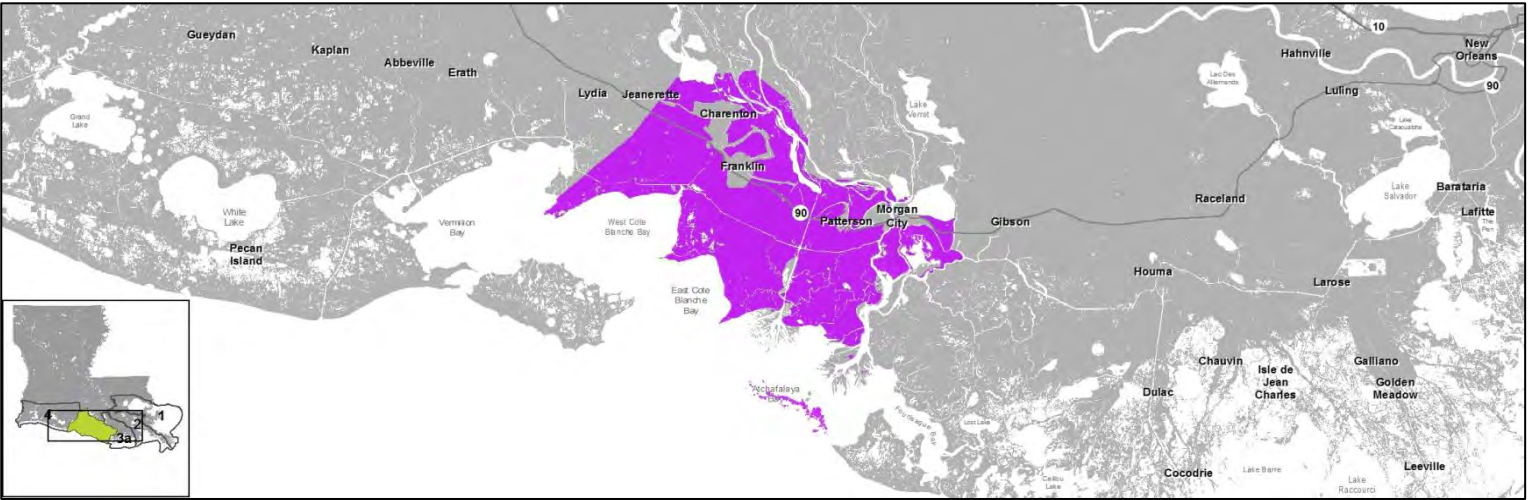
Saint Mary Parish - Rural Areas

Nonstructural BFE + 1

Project ID: STM.050.1



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

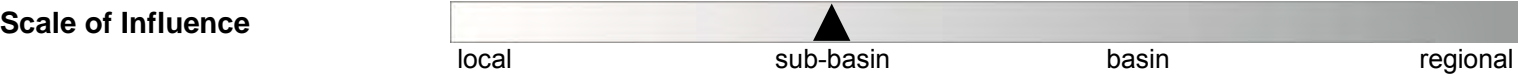
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Saint Mary Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$1558M	\$1452M	\$2325M	\$2157M
100 Year Event	\$2185M	\$2012M	\$2769M	\$2666M
500 Year Event	\$3101M	\$2971M	\$5606M	\$5413M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	770	\$	56,257,000
	Residential Elevated	390	\$	58,518,000
	Voluntary Residential Acquired	10	\$	452,000
	Total	1170	\$	115,227,000

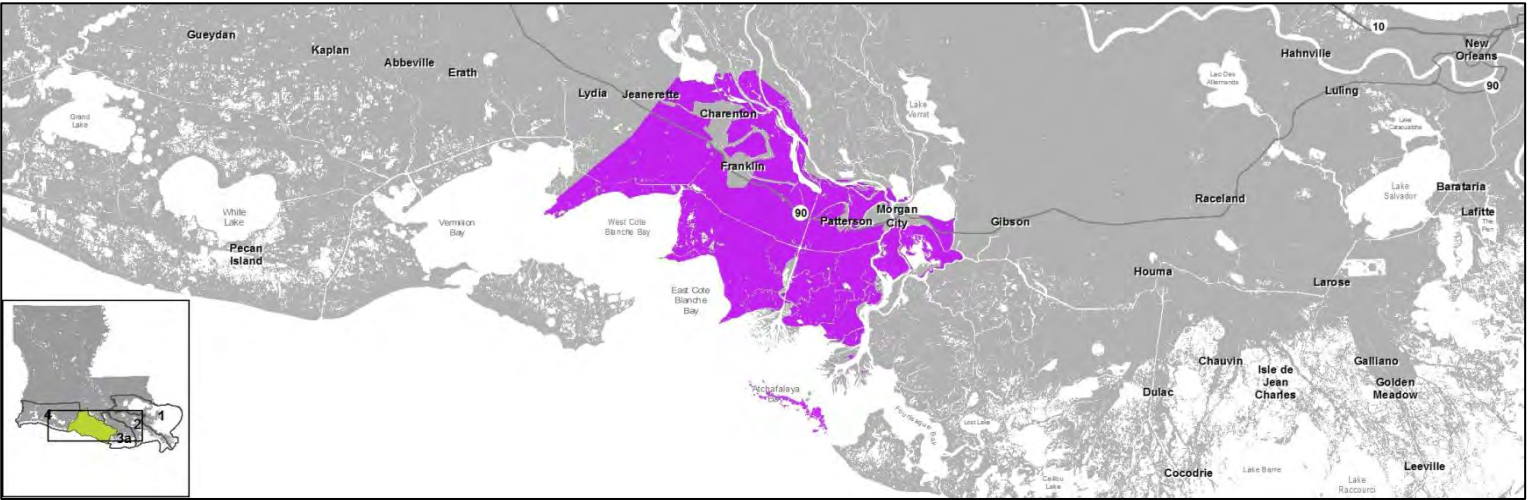
Saint Mary Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: STM.050.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

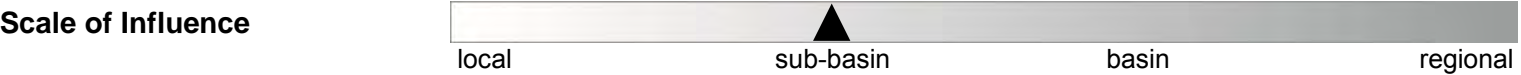
Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Saint Mary Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction		Moderate		Less Optimistic	
		FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project	50 Year Event	\$1558M	\$1423M	\$2325M	\$2116M
	100 Year Event	\$2185M	\$1974M	\$2769M	\$2550M
	500 Year Event	\$3101M	\$2846M	\$5606M	\$5192M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	70	\$	38,192,000
	Residential Elevated	1740	\$	262,750,000
	Voluntary Residential Acquired	10	\$	452,000
	Total	1820	\$	301,394,000

Terrebonne Parish - Rural Areas

Nonstructural BFE + 1

Project ID: TER.050.1



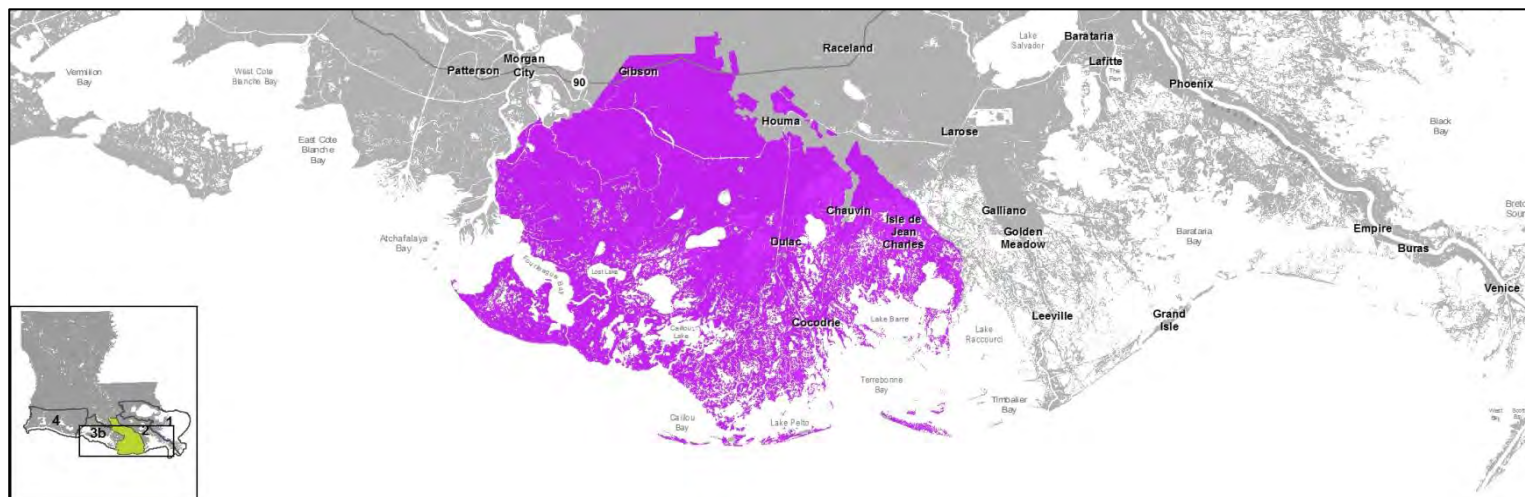
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Terrebonne Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$11146M	\$8717M	\$15558M	\$13216M
100 Year Event	\$14279M	\$12144M	\$18063M	\$16614M
500 Year Event	\$18032M	\$16276M	\$19307M	\$19009M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	1010		\$	120,530,000
Residential Elevated	4230		\$	697,897,000
Voluntary Residential Acquired	130		\$	28,227,000
Total	5370		\$	846,654,000

Terrebonne Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: TER.050.2



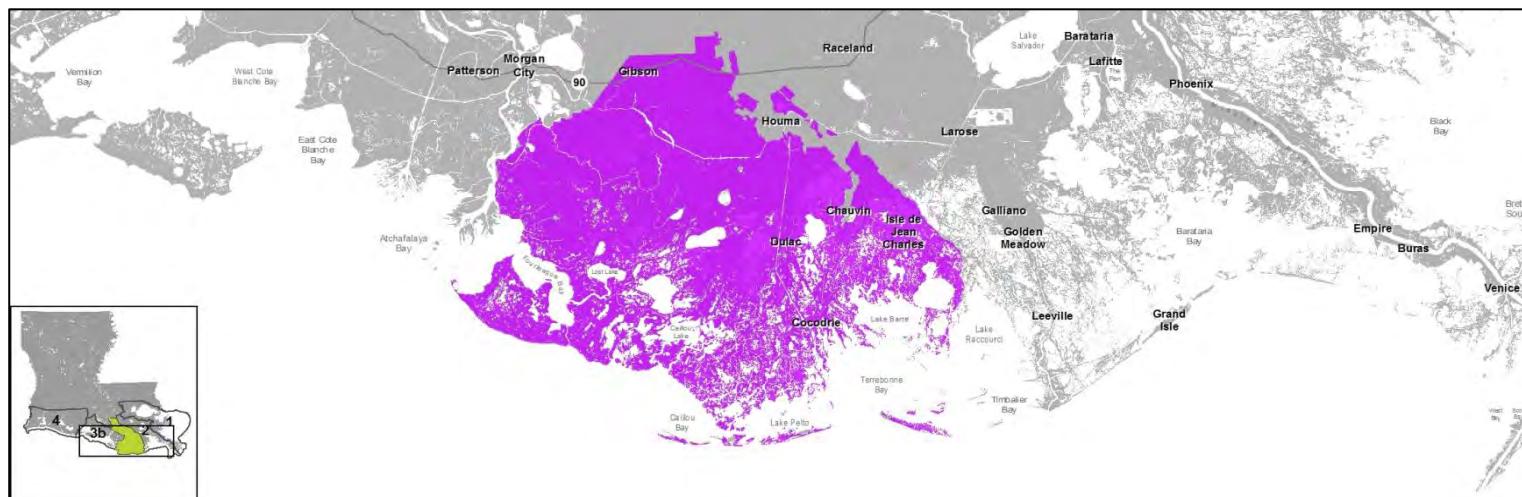
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Terrebonne Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$11146M	\$8502M	\$15558M	\$12633M
100 Year Event	\$14279M	\$11385M	\$18063M	\$15510M
500 Year Event	\$18032M	\$15548M	\$19307M	\$17259M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	110	\$	94,722,000
Residential Elevated	5290	\$	895,004,000
Voluntary Residential Acquired	570	\$	140,563,000
Total	5970	\$	1,130,289,000

Grand Lake

Bank Stabilization

Project ID: 004.BS.01

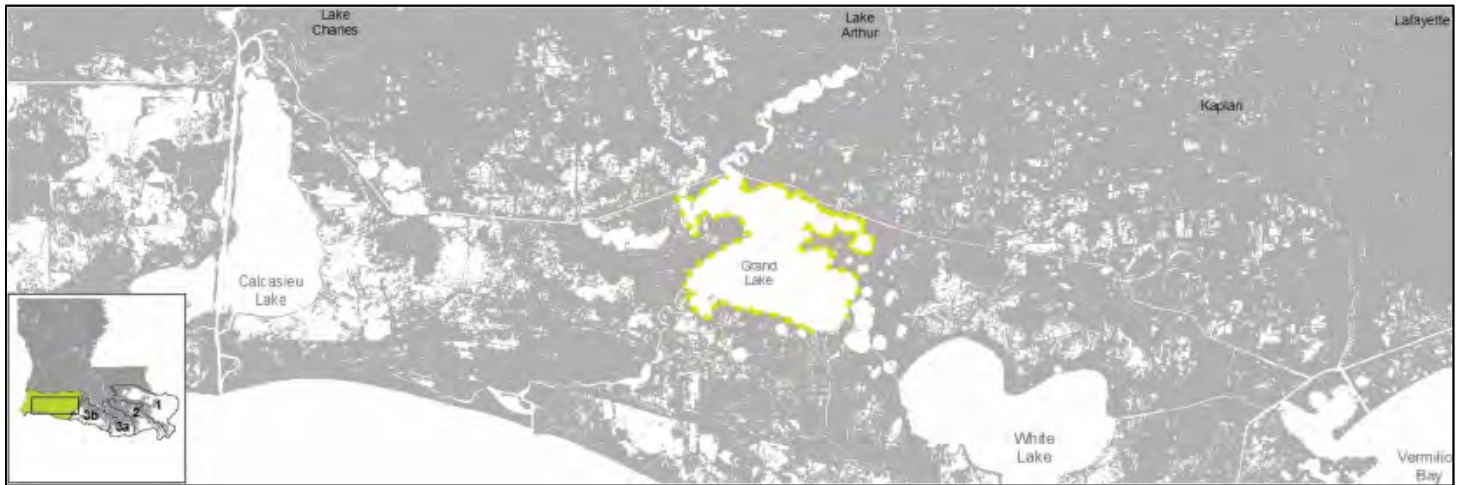


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

2007 State Master Plan

Project Status

Conceptual Phase

Description

Bank stabilization through earthen fill placement and vegetative plantings of approximately 497,000 feet of perimeter shoreline at Grand Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

314 ac

326 ac

Long Term (Year 50)

364 ac

1499 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 4,900,000

Estimated Cost Construction

\$ 61,293,000

Operations & Maintenance (50 years)

\$ 9,530,000

Total**\$ 75,723,000**

West Cove

Bank Stabilization

Project ID: 004.BS.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Bank stabilization through earthen fill placement and vegetative plantings of approximately 106,000 feet of perimeter shoreline in the West Cove area of Calcasieu Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	95 ac	101 ac
Long Term (Year 50)	101 ac	109 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,080,000
Estimated Cost Construction	\$	13,526,000
Operations & Maintenance (50 years)	\$	2,030,000
Total	\$	16,636,000

GIWW (Freshwater Bayou to Calcasieu Ship Channel)

Bank Stabilization

Project ID: 004.BS.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

2007 State Master Plan

Project Status

Conceptual Phase

Description

Bank stabilization through earthen fill placement and vegetative plantings of approximately 421,000 feet of GIWW bankline between Freshwater Bayou Canal and Calcasieu Ship Channel.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	233 ac	339 ac
Long Term (Year 50)	278 ac	316 ac

Project Cost Estimate

Planning/Engineering & Design	\$	4,160,000
Estimated Cost Construction	\$	52,023,000
Operations & Maintenance (50 years)	\$	8,080,000
Total	\$	64,263,000

Sabine Lake

Bank Stabilization

Project ID: 004.BS.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

LACPR

Project Status

Conceptual Phase

Description

Bank stabilization through earthen fill placement and vegetative plantings of approximately 133,000 feet of the eastern shoreline of Sabine Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

241 ac

271 ac

Long Term (Year 50)

251 ac

1903 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 1,350,000

Estimated Cost Construction

\$ 16,852,000

Operations & Maintenance (50 years)

\$ 2,550,000

Total**\$ 20,752,000**

Calcasieu Ship Channel (Gulf to Calcasieu Lake)

Bank Stabilization

Project ID: 004.BS.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Cameron Parish Master Plan

Project Status

Conceptual Phase

Description

Bank stabilization through earthen fill and placement of approximately 75,000 feet of Calcasieu Ship Channel bankline from the Gulf of Mexico to Calcasieu Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

101 ac

109 ac

Long Term (Year 50)

108 ac

113 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 780,000

Estimated Cost Construction

\$ 9,774,000

Operations & Maintenance (50 years)

\$ 1,440,000

Total**\$ 11,994,000**

Calcasieu Ship Channel Salinity Control Measures

Hydrologic Restoration

Project ID: 004.HR.06

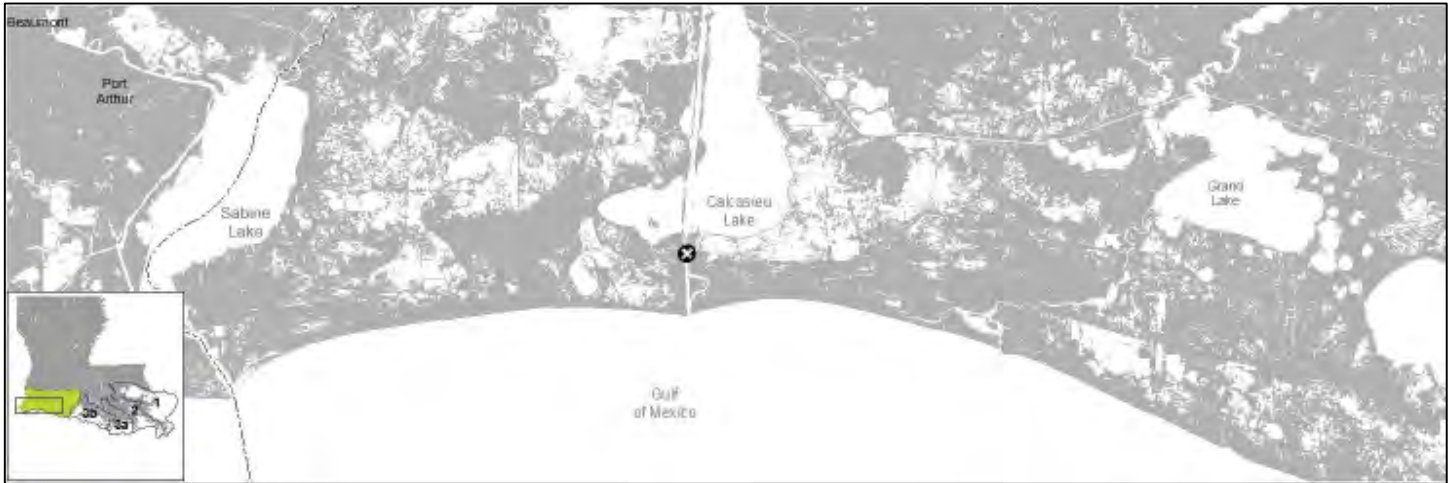


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of measures designed to prevent saltwater from entering Calcasieu Lake through the Calcasieu Ship Channel. Measures would control salinity spikes, provide storm surge benefits, and would be constructed in a manner that would allow for the continued functioning, and ideally improvement and increased viability of the Calcasieu Ship Channel and the Port of Lake Charles. The project features would be designed in close coordination with key stakeholder groups in order to meet its various objectives.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1789 ac	2599 ac
Long Term (Year 50)	3047 ac	21648 ac

Project Cost Estimate

Planning/Engineering & Design	\$	25,260,000
Estimated Cost Construction	\$	315,778,000
Operations & Maintenance (50 years)	\$	63,160,000
Total	\$	404,198,000

Little Pecan Bayou Sill

Hydrologic Restoration

Project ID: 004.HR.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of a saltwater sill at the confluence of Little Pecan Bayou and the Mermentau River to retain freshwater and reduce saltwater intrusion in the Mermentau watershed.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	1839 ac	1530 ac
Long Term (Year 50)	4341 ac	14441 ac

Project Cost Estimate

Planning/Engineering & Design	\$	320,000
Estimated Cost Construction	\$	4,005,000
Operations & Maintenance (50 years)	\$	790,000
Total	\$	5,115,000

Sabine Pass

Hydrologic Restoration

Project ID: 004.HR.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Isolation of the southern end of Sabine Lake from the Sabine Ship Channel through a rock dike to retain freshwater in Sabine Lake and reduce saltwater intrusion from the ship channel.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	642 ac	752 ac
Long Term (Year 50)	826 ac	3037 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,740,000
Estimated Cost Construction	\$	21,769,000
Operations & Maintenance (50 years)	\$	10,520,000
Total	\$	34,029,000

Tom's Bayou

Hydrologic Restoration

Project ID: 004.HR.12



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of a sheetpile crested weir at Tom's Bayou to provide salinity control for Rainey Marsh.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

4 ac

2 ac

Long Term (Year 50)

4 ac

4 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 50,000

Estimated Cost Construction

\$ 685,000

Operations & Maintenance (50 years)

\$ 140,000

Total**\$ 875,000**

Deep Lake

Hydrologic Restoration

Project ID: 004.HR.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Dredging of a 700-foot spillway structure (with 100-foot width and 15-foot depth) north of Deep Lake to increase freshwater exchange within the Rockefeller Wildlife Management Area and Game Preserve.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	266 ac	6513 ac
Long Term (Year 50)	449 ac	20288 ac

Project Cost Estimate

Planning/Engineering & Design	\$	150,000
Estimated Cost Construction	\$	1,827,000
Operations & Maintenance (50 years)	\$	300,000
Total	\$	2,277,000

Alkali Ditch Area Hydrologic Restoration

Project ID: 004.HR.14

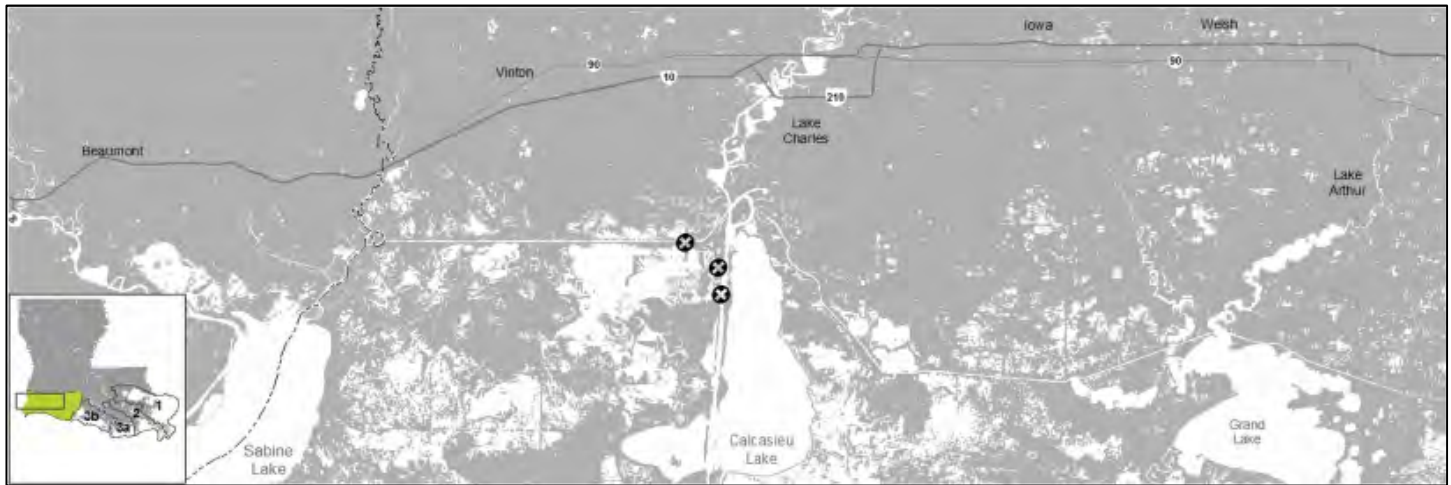


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of barge gate structures at Alkali Ditch, Crab Gully, and Black Lake Bayou to provide salinity control in the Calcasieu watershed.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	655 ac	1855 ac
Long Term (Year 50)	1212 ac	2634 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,630,000
Estimated Cost Construction	\$	32,866,000
Operations & Maintenance (50 years)	\$	2,660,000
Total	\$	38,156,000

Oyster Bayou Hydrologic Restoration

Project ID: 004.HR.17

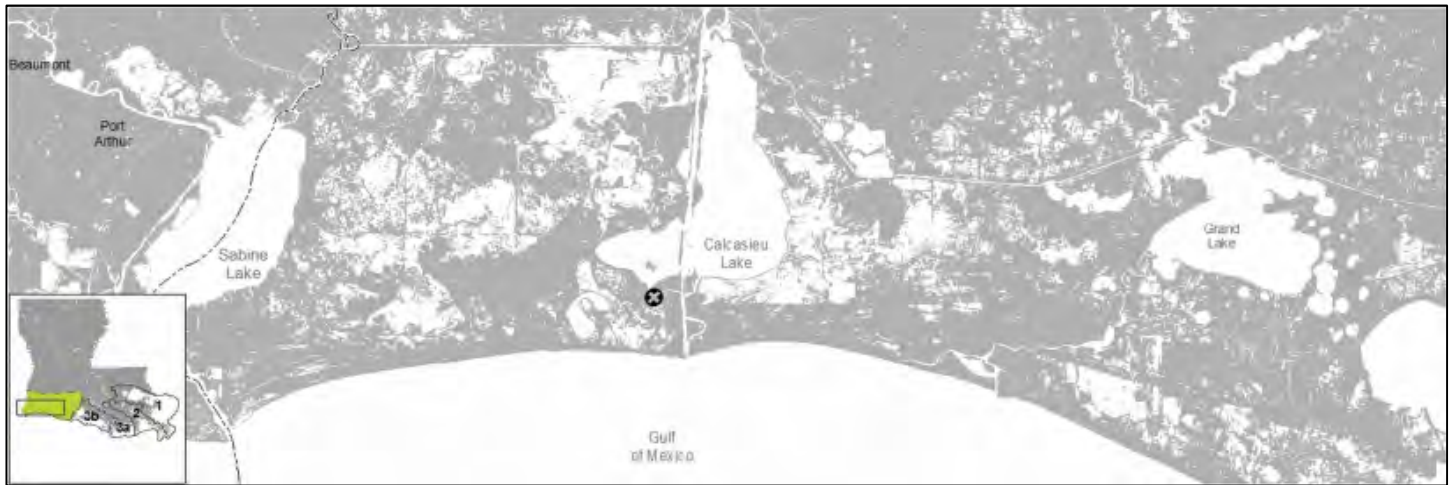


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

LACPR

Project Status

Conceptual Phase

Description

Construction of a salinity barrier at Oyster Bayou south of West Cove, Calcasieu Lake to reduce saltwater intrusion into the Calcasieu watershed.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

146 ac

134 ac

Long Term (Year 50)

316 ac

740 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 320,000

Estimated Cost Construction

\$ 4,005,000

Operations & Maintenance (50 years)

\$ 790,000

Total**\$ 5,115,000**

Mermentau Basin (East of Calcasieu Lake)

Hydrologic Restoration

Project ID: 004.HR.18

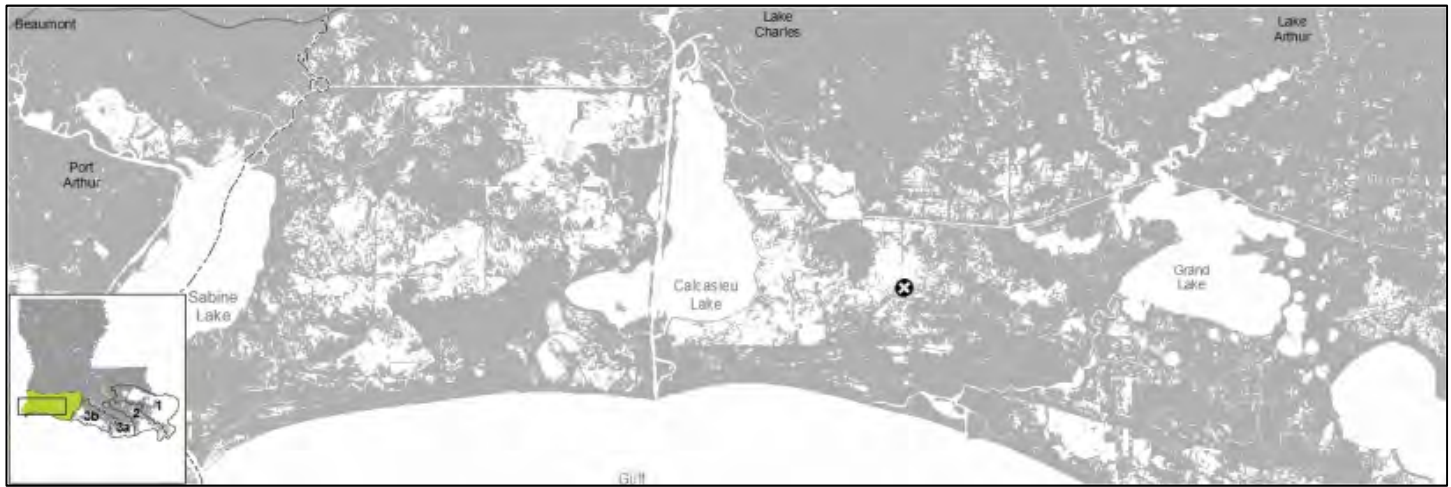


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of a water control structure (culvert) east of Calcasieu Lake with operation to introduce freshwater to wetlands west of Highway LA-27 near Creole.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	1925 ac	-2328 ac
Long Term (Year 50)	6120 ac	5565 ac

Project Cost Estimate

Planning/Engineering & Design	\$	470,000
Estimated Cost Construction	\$	5,937,000
Operations & Maintenance (50 years)	\$	400,000
Total	\$	6,807,000

Mermentau Basin (South of Grand Lake)

Hydrologic Restoration

Project ID: 004.HR.19



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of a water control structure (culvert) south of Grand Lake with operation to introduce freshwater to wetlands south of Highway LA-82 near Grand Chenier.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	28 ac	91 ac
Long Term (Year 50)	37 ac	4485 ac

Project Cost Estimate

Planning/Engineering & Design	\$	470,000
Estimated Cost Construction	\$	5,937,000
Operations & Maintenance (50 years)	\$	400,000
Total	\$	6,807,000

Mermentau Basin (South of White Lake)

Hydrologic Restoration

Project ID: 004.HR.20



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of a water control structure (culvert) south of White Lake with operation to introduce freshwater to wetlands south of Highway LA-82 near Pecan Island.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	204 ac	974 ac
Long Term (Year 50)	380 ac	2620 ac

Project Cost Estimate

Planning/Engineering & Design	\$	470,000
Estimated Cost Construction	\$	5,937,000
Operations & Maintenance (50 years)	\$	400,000
Total	\$	6,807,000

East Calcasieu Lake

Hydrologic Restoration

Project ID: 004.HR.22

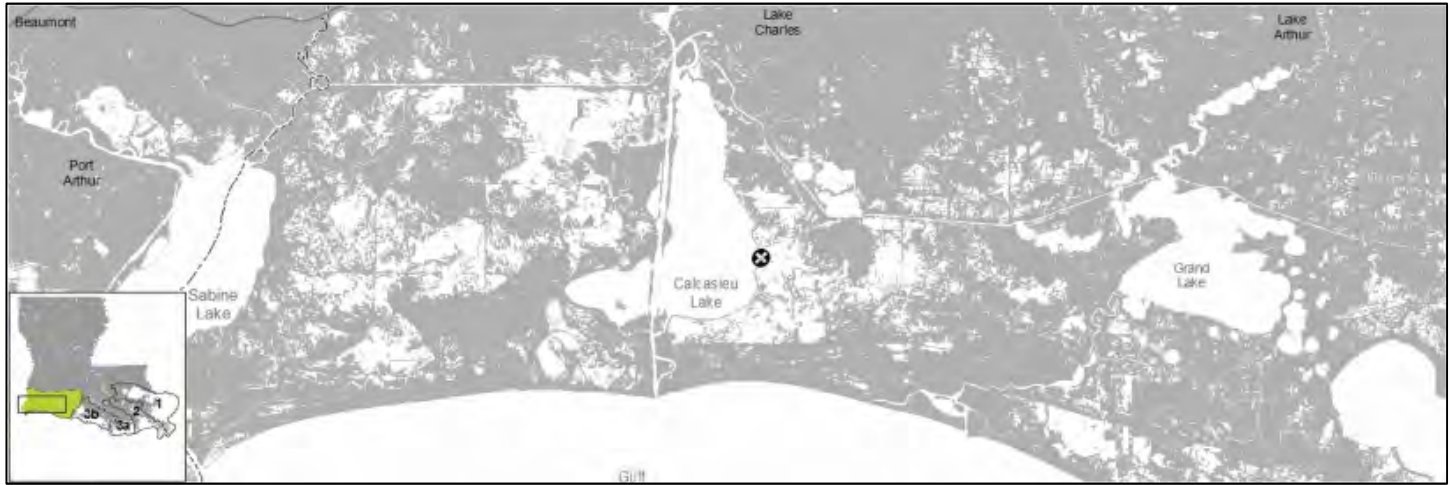


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Dredging of a 1,500-foot spillway structure (with 200-foot width and 15-foot depth) in the Cameron-Creole Levee at East Calcasieu Lake to increase freshwater exchange with adjacent wetlands.

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	700 ac	1945 ac
Long Term (Year 50)	1200 ac	3548 ac

Project Cost Estimate

Planning/Engineering & Design	\$	350,000
Estimated Cost Construction	\$	4,328,000
Operations & Maintenance (50 years)	\$	830,000
Total	\$	5,508,000

East Rainey Marsh Creation

Project ID: 03b.MC.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,080 acres in the eastern portion of Rainey Marsh (through sediment dredging of the offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3016 ac	3105 ac
Long Term (Year 50)	3029 ac	4117 ac

Project Cost Estimate

Planning/Engineering & Design	\$	31,220,000
Estimated Cost Construction	\$	374,595,000
Operations & Maintenance (50 years)	\$	26,330,000
Total	\$	432,145,000

South Grand Chenier

Marsh Creation

Project ID: 004.MC.01

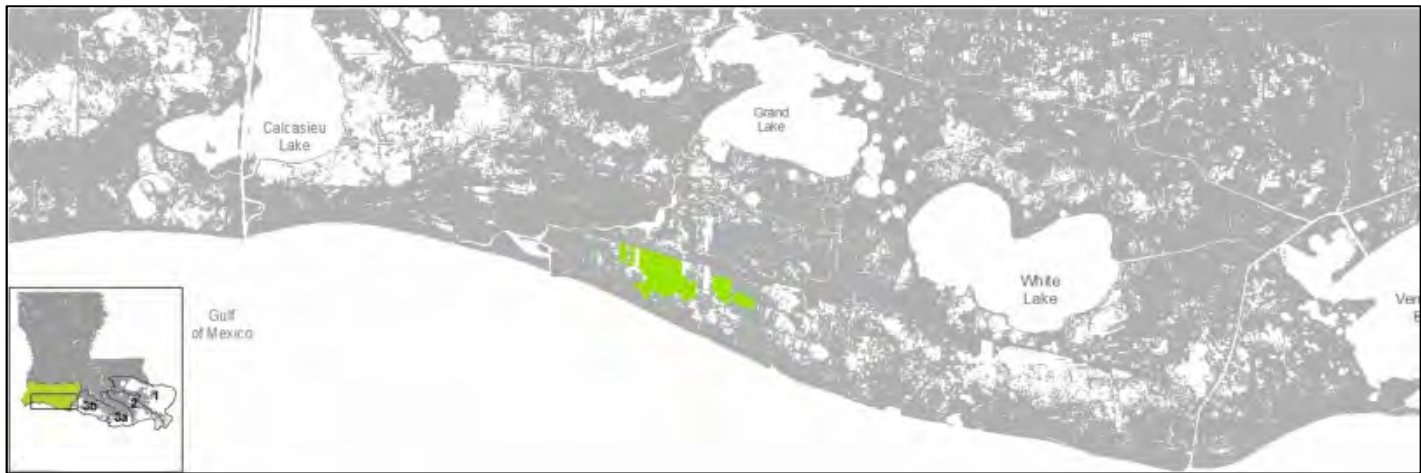


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 7,330 acres of marsh south of Highway LA-82 near Grand Chenier (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

7386 ac

9908 ac

Long Term (Year 50)

7456 ac

9858 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 52,890,000

Estimated Cost Construction

\$ 635,629,000

Operations & Maintenance (50 years)

\$ 23,850,000

Total**\$ 712,369,000**

Mud Lake Marsh Creation

Project ID: 004.MC.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 3,910 acres of marsh at Mud Lake south of West Cove, Calcasieu Lake (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3964 ac	4371 ac
Long Term (Year 50)	4120 ac	3556 ac

Project Cost Estimate

Planning/Engineering & Design	\$	43,810,000
Estimated Cost Construction	\$	525,715,000
Operations & Maintenance (50 years)	\$	12,930,000
Total	\$	582,455,000

West Rainey Marsh Creation

Project ID: 004.MC.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 3,550 acres of marsh at Rainey Marsh near the southeast bank of the Freshwater Bayou Canal (through sediment dredging of Tiger Shoal and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3469 ac	3558 ac
Long Term (Year 50)	3481 ac	4059 ac

Project Cost Estimate

Planning/Engineering & Design	\$	46,480,000
Estimated Cost Construction	\$	557,780,000
Operations & Maintenance (50 years)	\$	12,260,000
Total	\$	616,520,000

Southeast Calcasieu Lake

Marsh Creation

Project ID: 004.MC.10



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Creation of approximately 7,600 acres of marsh southeast of Calcasieu Lake (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	7665 ac	7927 ac
Long Term (Year 50)	7563 ac	7942 ac

Project Cost Estimate

Planning/Engineering & Design	\$	49,700,000
Estimated Cost Construction	\$	596,371,000
Operations & Maintenance (50 years)	\$	25,040,000
Total	\$	671,111,000

Cameron Meadows

Marsh Creation

Project ID: 004.MC.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,290 acres of marsh at Cameron Meadows north of Johnsons Bayou (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3294 ac	3394 ac
Long Term (Year 50)	3302 ac	3351 ac

Project Cost Estimate

Planning/Engineering & Design	\$	21,540,000
Estimated Cost Construction	\$	258,521,000
Operations & Maintenance (50 years)	\$	10,880,000
Total	\$	290,941,000

East Pecan Island

Marsh Creation

Project ID: 004.MC.16



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 7,340 acres of marsh between Pecan Island and the west bank of the Freshwater Bayou Canal (through sediment dredging of Tiger Shoal and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	7385 ac	7909 ac
Long Term (Year 50)	7406 ac	8777 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 87,540,000
Estimated Cost Construction	\$ 1,072,761,000
Operations & Maintenance (50 years)	\$ 23,440,000
Total	\$ 1,183,741,000

East Calcasieu Lake

Marsh Creation

Project ID: 004.MC.19

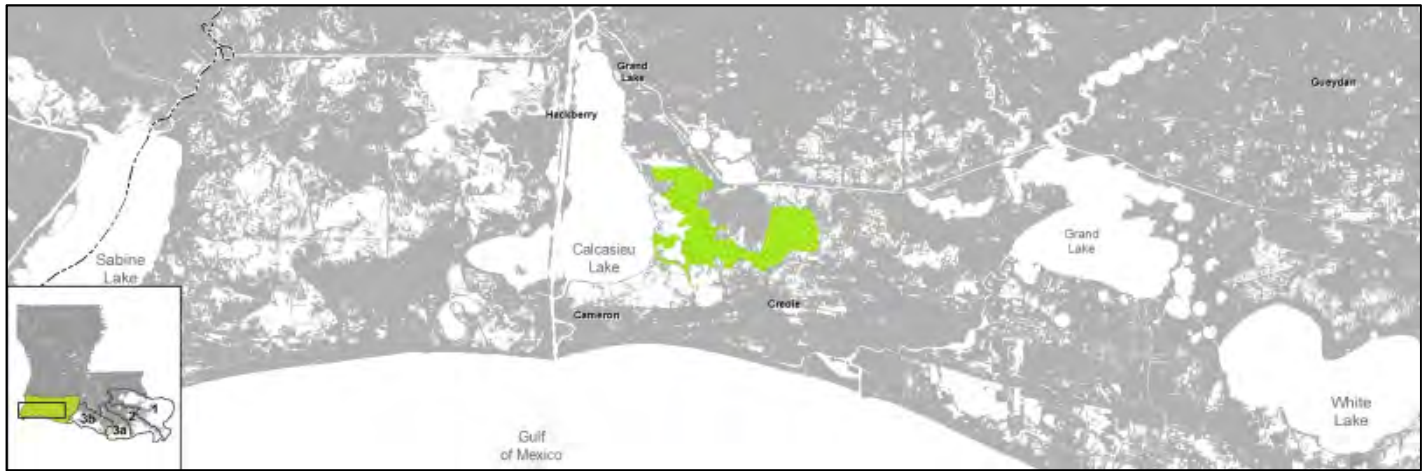


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 14,840 acres of marsh in the eastern Cameron-Creole watershed (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	14846 ac	14883 ac
Long Term (Year 50)	14996 ac	11357 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 174,840,000
Estimated Cost Construction	\$ 2,263,064,000
Operations & Maintenance (50 years)	\$ 58,920,000
Total	\$ 2,496,824,000

Calcasieu Ship Channel

Marsh Creation

Project ID: 004.MC.23



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 2,640 acres of marsh south of Calcasieu Lake near Cameron (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	2752 ac	2961 ac
Long Term (Year 50)	2799 ac	3595 ac

Project Cost Estimate

Planning/Engineering & Design	\$	13,640,000
Estimated Cost Construction	\$	163,718,000
Operations & Maintenance (50 years)	\$	8,810,000
Total	\$	186,168,000

Kelso Bayou Marsh Creation

Project ID: 004.MC.25



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

CWPPRA

Project Status

Engineering and Design

Description

Creation of approximately 260 acres of marsh at Kelso Bayou immediately west of Calcasieu Ship Channel (through beneficial use of Calcasieu Ship Channel sediment and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence**Land Area****Moderate****Less Optimistic**

Near Term (Year 20)

254 ac

254 ac

Long Term (Year 50)

255 ac

93 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 2,380,000

Estimated Cost Construction

\$ 28,520,000

Operations & Maintenance (50 years)

\$ 1,420,000

Total**\$ 32,320,000**

Grand Chenier

Ridge Restoration

Project ID: 004.RC.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Restoration of approximately 86,000 feet (200 acres) of historic ridge at Grand Chenier Ridge (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	32 ac	55 ac
Long Term (Year 50)	38 ac	139 ac

Project Cost Estimate

Planning/Engineering & Design	\$	630,000
Estimated Cost Construction	\$	7,902,000
Operations & Maintenance (50 years)	\$	2,190,000
Total	\$	10,722,000

Cheniere au Tigre

Ridge Restoration

Project ID: 004.RC.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Restoration of approximately 60,000 feet (140 acres) of historic ridge along Bill Ridge and Cheniere au Tigre near the Gulf shoreline (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	72 ac	79 ac
Long Term (Year 50)	80 ac	188 ac

Project Cost Estimate

Planning/Engineering & Design	\$	590,000
Estimated Cost Construction	\$	7,367,000
Operations & Maintenance (50 years)	\$	1,990,000
Total	\$	9,947,000

Pecan Island Ridge Restoration

Project ID: 004.RC.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Restoration of approximately 44,000 feet (100 acres) of historic ridge along Pecan Island Ridge (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	4 ac	20 ac
Long Term (Year 50)	6 ac	33 ac

Project Cost Estimate

Planning/Engineering & Design	\$	480,000
Estimated Cost Construction	\$	5,998,000
Operations & Maintenance (50 years)	\$	1,520,000
Total	\$	7,998,000

Hackberry Ridge

Ridge Restoration

Project ID: 004.RC.04



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Restoration of approximately 130,000 feet (300 acres) of historic ridge along Blue Buck and Hackberry Ridges (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	5 ac	5 ac
Long Term (Year 50)	5 ac	12 ac

Project Cost Estimate

Planning/Engineering & Design	\$	50,000
Estimated Cost Construction	\$	622,000
Operations & Maintenance (50 years)	\$	1,150,000
Total	\$	1,822,000

Front Ridge Ridge Restoration

Project ID: 004.RC.05

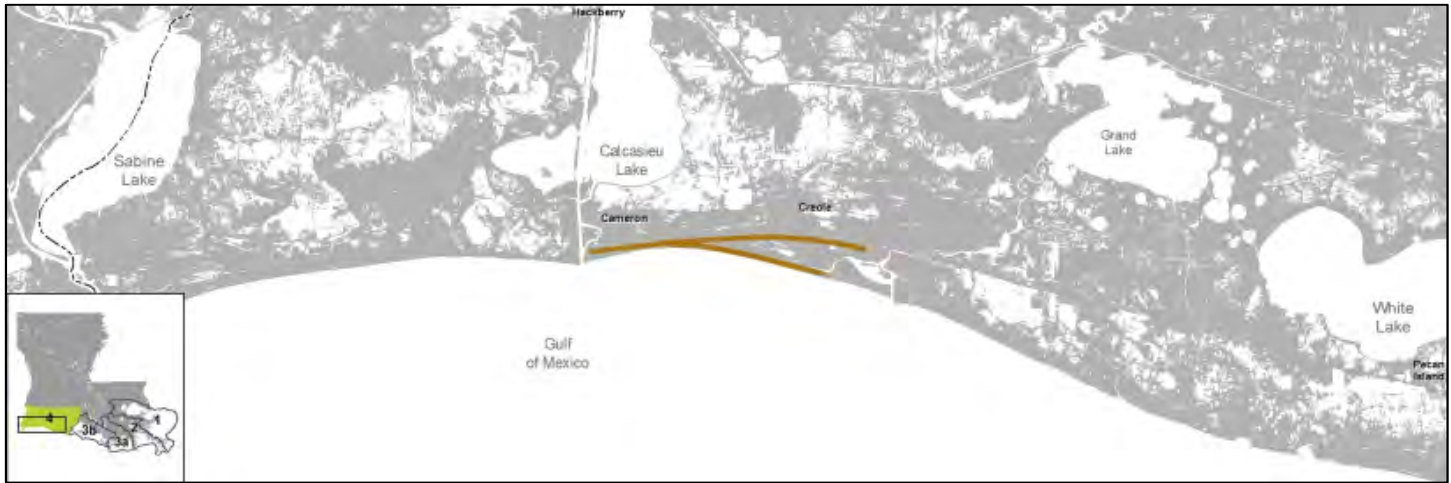


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Restoration of approximately 147,000 feet (340 acres) of historic ridge along Front Ridge east of Cameron (through placement of in-situ material at an elevation of 5 feet NAVD88 and vegetative plantings) to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	16 ac	21 ac
Long Term (Year 50)	4 ac	20 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,560,000
Estimated Cost Construction	\$	19,457,000
Operations & Maintenance (50 years)	\$	5,550,000
Total	\$	26,567,000

Freshwater Bayou (Belle Isle Canal to Lock)

Shoreline Protection

Project ID: 03b.SP.01



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b**Planning Unit 4**

Project Source

CWPPRA

Project Status

Engineering and Design

Description

Shoreline protection through rock breakwaters of approximately 41,000 feet of Freshwater Bayou shoreline from Belle Isle Canal to Freshwater Bayou Lock to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	88 ac	94 ac
Long Term (Year 50)	91 ac	121 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,300,000
Estimated Cost Construction	\$	28,749,000
Operations & Maintenance (50 years)	\$	13,710,000
Total	\$	44,759,000

Gulf (Freshwater Bayou to Southwest Pass)

Shoreline Protection

Project ID: 03b.SP.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Shoreline protection through rock breakwaters of approximately 90,000 feet of Gulf shoreline from Freshwater Bayou to Southwest Pass (near Marsh Island) to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	74 ac	105 ac
Long Term (Year 50)	99 ac	1048 ac

Project Cost Estimate

Planning/Engineering & Design	\$	5,540,000
Estimated Cost Construction	\$	69,199,000
Operations & Maintenance (50 years)	\$	24,020,000
Total	\$	98,759,000

Southwest Pass (West Side)

Shoreline Protection

Project ID: 03b.SP.08



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Shoreline protection of approximately 37,000 feet of shoreline along Southwest Pass immediately west of Marsh Island to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	49 ac	53 ac
Long Term (Year 50)	41 ac	58 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,100,000
Estimated Cost Construction	\$	26,230,000
Operations & Maintenance (50 years)	\$	12,600,000
Total	\$	40,930,000

Calcasieu-Sabine- Component A

Shoreline Protection

Project ID: 004.BS.04a

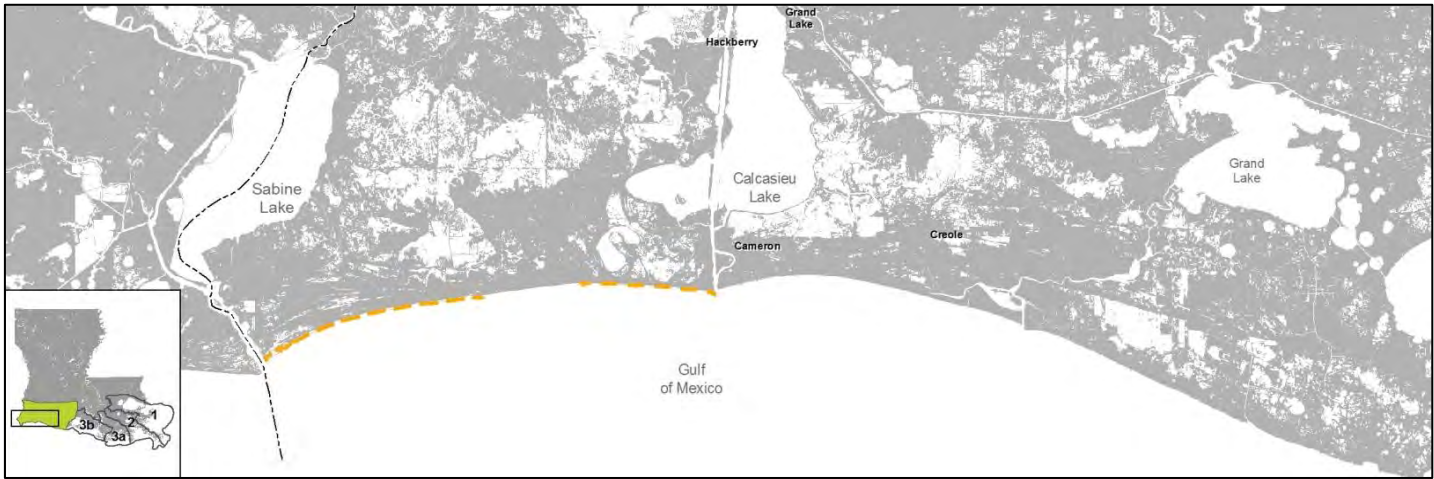


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Shoreline protection through rock and low wave action breakwaters of approximately 38,000 feet of critical areas of the Gulf shoreline between Sabine River and Calcasieu Ship Channel to preserve shoreline integrity and reduce wetland degradation from wave erosion (component of 004.BS.04).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	82 ac	105 ac
Long Term (Year 50)	67 ac	118 ac

Project Cost Estimate

Planning/Engineering & Design	\$	2,630,000
Estimated Cost Construction	\$	32,913,000
Operations & Maintenance (50 years)	\$	13,770,000
Total	\$	49,313,000

Schooner Bayou Canal

Shoreline Protection

Project ID: 004.SP.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 21,000 feet of Schooner Bayou Canal bankline from Highway 82 to North Prong to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	43 ac	43 ac
Long Term (Year 50)	43 ac	48 ac

Project Cost Estimate

Planning/Engineering & Design	\$	1,200,000
Estimated Cost Construction	\$	15,018,000
Operations & Maintenance (50 years)	\$	7,140,000
Total	\$	23,358,000

Freshwater Bayou Canal

Shoreline Protection

Project ID: 004.SP.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 11,000 feet of Freshwater Bayou Canal bankline at Little Vermilion Bay to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	35 ac	34 ac
Long Term (Year 50)	32 ac	31 ac

Project Cost Estimate

Planning/Engineering & Design	\$	680,000
Estimated Cost Construction	\$	8,546,000
Operations & Maintenance (50 years)	\$	3,900,000
Total	\$	13,126,000

Gulf (Calcasieu River to Rockefeller)**Shoreline Protection**

Project ID: 004.SP.05a



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4**Project Source**

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Shoreline protection through rock and low-wave action breakwaters of approximately 290,000 feet of Gulf shoreline between Calcasieu River and Rockefeller Refuge to preserve shoreline integrity and reduce wetland degradation from wave erosion (component of 004.SP.05).

Scale of Influence**Land Area**

	Moderate	Less Optimistic
Near Term (Year 20)	502 ac	540 ac
Long Term (Year 50)	480 ac	583 ac

Project Cost Estimate

Planning/Engineering & Design	\$	26,050,000
Estimated Cost Construction	\$	325,569,000
Operations & Maintenance (50 years)	\$	57,040,000
Total	\$	408,659,000

Northeast White Lake

Shoreline Protection

Project ID: 004.SP.07



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

CIAP

Project Status

Conceptual Phase

Description

Shoreline Protection through rock breakwaters of approximately 3,000 feet of White Lake shoreline near Schooner Bayou Canal to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	9 ac	10 ac
Long Term (Year 50)	9 ac	11 ac

Project Cost Estimate

Planning/Engineering & Design	\$	230,000
Estimated Cost Construction	\$	2,937,000
Operations & Maintenance (50 years)	\$	1,210,000
Total	\$	4,377,000

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Iberia/Vermilion Upland Levee

Structural Protection

Project ID: 03b.HP.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility *Some component flood gates already funded for construction.

Description

Construction of a levee to an elevation of 21.5 feet NAVD88 along the marsh/upland interface in Iberia and Vermilion Parishes between Bayou Carlin and the Warren Canal. Project features include approximately 218,000 feet of earthen levee, 8,000 feet of concrete T-wall, three 110-foot barge gates, and two 220-foot barge gates. NOTE: Project was combined with 004.HP.04 for selection in Master Plan and areas of overlap between the two projects were eliminated. Project features and costs presented in this fact sheet represent only the portion of the alignment that was retained for the Final Plan.

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	100,680,000
Estimated Cost Construction	\$	1,088,000,000
Operations & Maintenance (50 Years)	\$	186,900,000
Total	\$	1,375,580,000

Iberia/Vermilion Upland Levee

Structural Protection

Project ID: 03b.HP.06



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for all three storm surge events under both scenarios.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$105M	\$0M	\$646M	\$0M	\$2,983M	\$1M
Iberia Parish	\$2,510M	\$2,066M	\$4,648M	\$4,357M	\$8,870M	\$8,352M
Vermilion Parish	\$3,401M	\$807M	\$6,105M	\$3,027M	\$12,104M	\$6,731M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$459M	\$1M	\$2,260M	\$58M	\$6,743M	\$150M
Iberia Parish	\$3,920M	\$3,626M	\$7,651M	\$6,837M	\$11,114M	\$10,295M
Vermilion Parish	\$5,718M	\$2,704M	\$10,531M	\$5,690M	\$15,284M	\$10,160M

Lake Charles 500-Year Protection- Planning Structural Protection

Project ID: 004.HP.06p

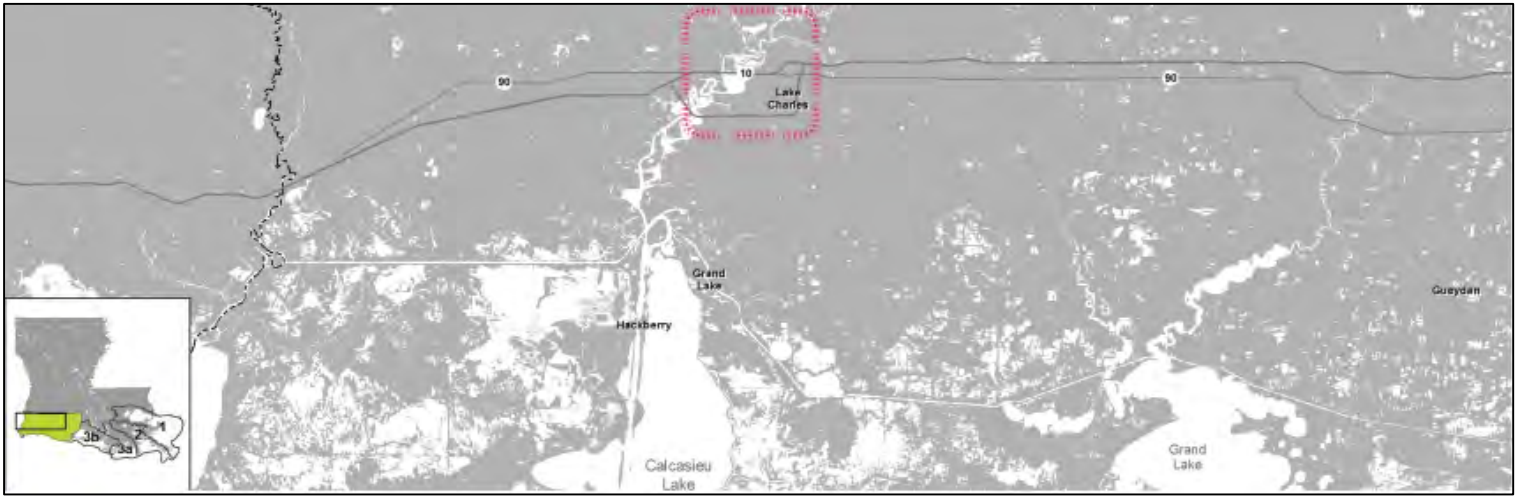


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Planning, engineering, and design to develop multiple measures (e.g., marsh creation, ridge restoration, gates, nonstructural, etc.) that will provide protection to the Greater Lake Charles Region (east and west sides of Lake Calcasieu).

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	82,590,000
Estimated Cost Construction	\$	-
Operations & Maintenance (50 Years)	\$	-
Total	\$	82,590,000

Lake Charles 500-Year Protection- Planning Structural Protection

Project ID: 004.HP.06p



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

This project is a study and does not involve the construction of any risk reduction features.

Lake Charles 500-Year Protection- Construction

Structural Protection

Project ID: 004.HP.06c

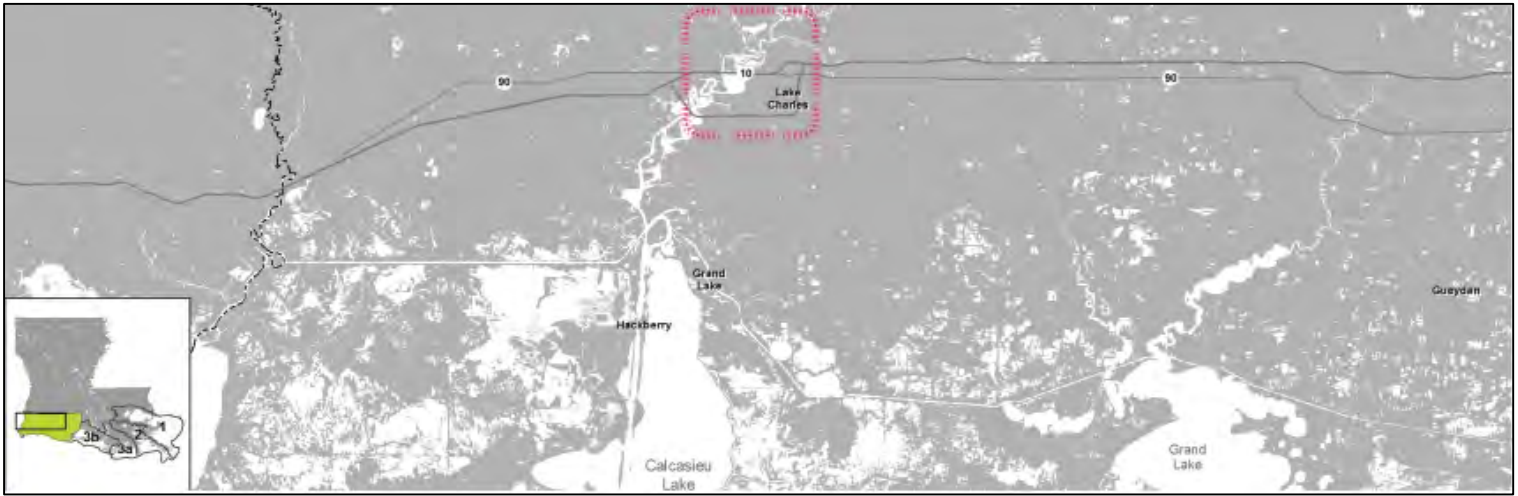


Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Project Source

Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Construction of protection measures selected and designed by 004.HP.06p within the Greater Lake Charles Region (east and west sides of Lake Calcasieu).

Scale of Influence



Project Cost Estimate:

Planning / Engineering & Design	\$	-
Estimated Cost Construction	\$	875,000,000
Operations & Maintenance (50 Years)	\$	191,950,000
Total	\$	1,066,950,000

Lake Charles 500-Year Protection- Construction

Structural Protection

Project ID: 004.HP.06c



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

This project involves the construction of features to be developed under 004.HP.06p.

Calcasieu-Sabine
Bank Stabilization
Project ID: 004.BS.04



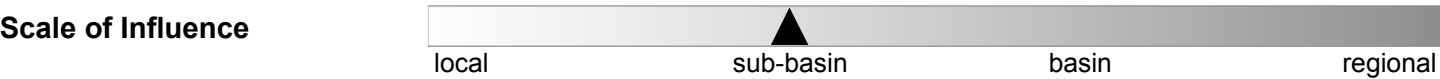
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Bank stabilization through earthen fill placement and vegetative plantings of approximately 164,000 feet of Gulf shoreline between Sabine River and Calcasieu Ship Channel to preserve shoreline integrity and reduce wetland degradation from wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	186 ac	325 ac
Long Term (Year 50)	146 ac	897 ac

Project Cost Estimate		
Planning/Engineering & Design	\$	1,650,000
Estimated Cost Construction	\$	20,622,000
Operations & Maintenance (50 years)	\$	3,140,000
Total	\$	25,412,000

GIWW Lock West of Calcasieu Ship Channel

Hydrologic Restoration

Project ID: 004.HR.02



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4**



Project Source	LCA Comprehensive Study
Project Status	Conceptual Phase
Description	Navigation lock on the GIWW west of Calcasieu Ship Channel to maintain salinity gradients in the Calcasieu watershed.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3102 ac	3414 ac
Long Term (Year 50)	6697 ac	19349 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 18,240,000
	Estimated Cost Construction	\$ 227,972,000
	Operations & Maintenance (50 years)	\$ 45,590,000
	Total	\$ 291,802,000

Mermentau River Hydrologic Restoration

Project ID: 004.HR.03



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Coast 2050
Project Status	Conceptual Phase

Description

Hydrologic restoration of the Mermentau Basin through restoration of the original Mermentau River connection to the Gulf of Mexico and constriction of Mermentau Navigation Channel to its authorized dimensions to reduce saltwater intrusion up the current navigation channel.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-559 ac	4053 ac
Long Term (Year 50)	-997 ac	28849 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 4,110,000
Estimated Cost Construction		\$ 51,380,000
Operations & Maintenance (50 years)		\$ 20,550,000
Total		\$ 76,040,000

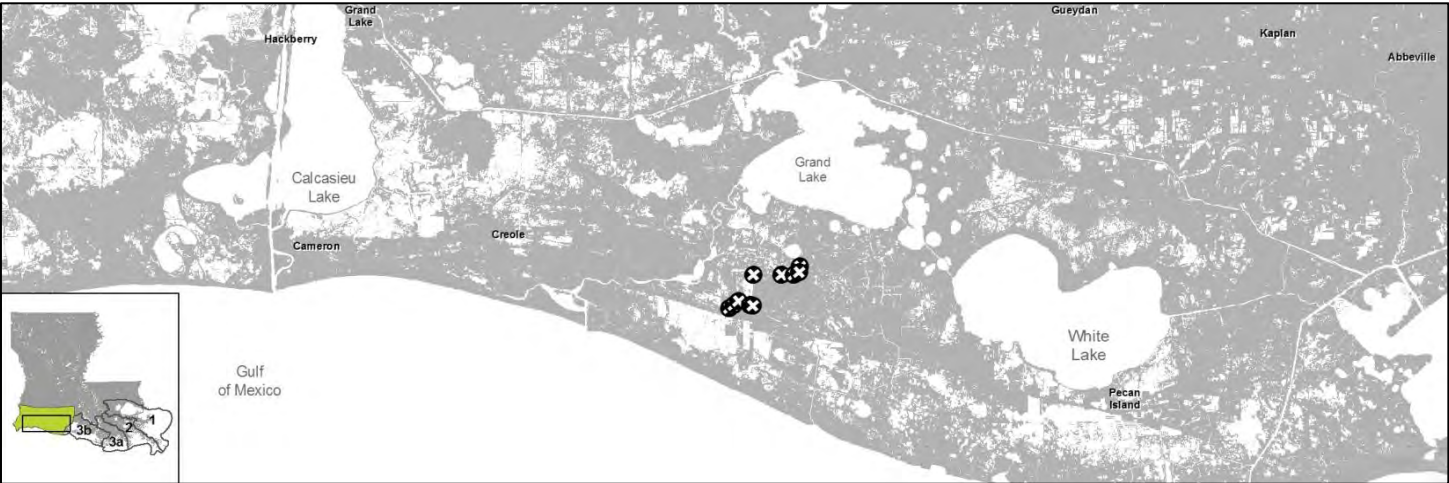
Little Pecan Bayou

Hydrologic Restoration

Project ID: 004.HR.05



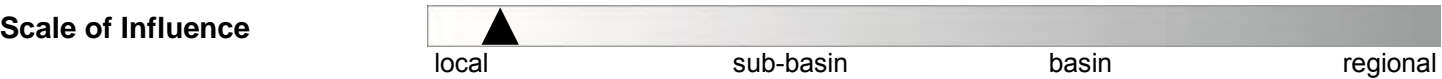
Planning Unit 1 Planning Unit 2 Planning Unit 3a Planning Unit 3b **Planning Unit 4**



Project Source CWPPRA

Project Status Conceptual Phase

Description Hydrologic restoration through three water control structures south of Little Pecan Bayou to introduce freshwater to wetlands south of Highway LA-82 near Grand Chenier.

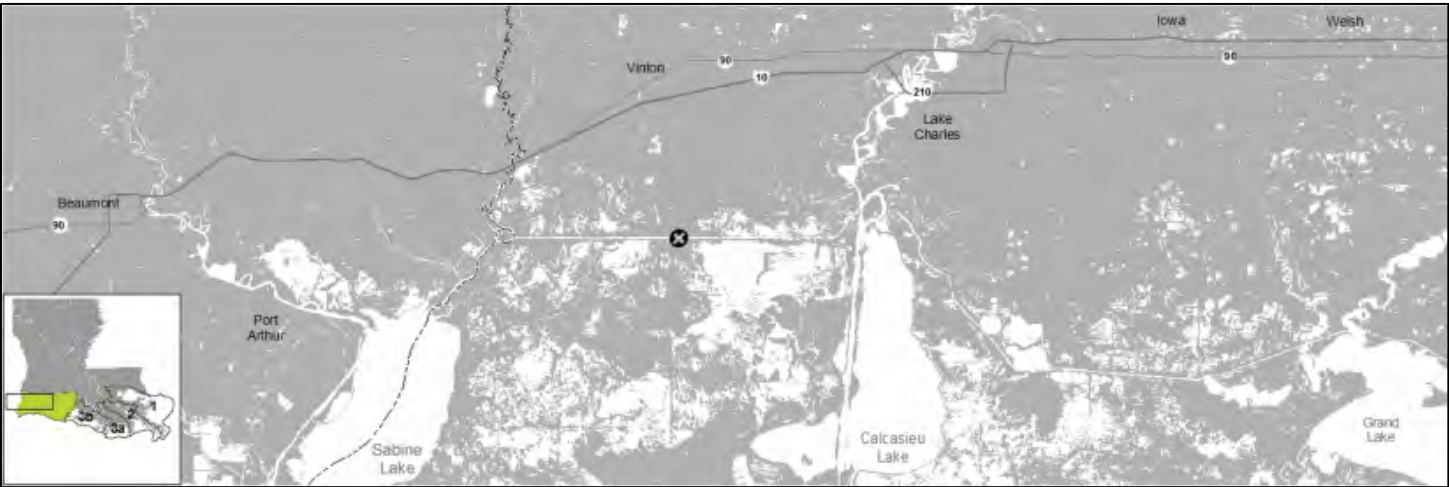


Land Area	Moderate		Less Optimistic	
	Near Term (Year 20)		504 ac	
	Long Term (Year 50)		3841 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	750,000
	Estimated Cost Construction		\$	9,320,000
	Operations & Maintenance (50 years)		\$	6,580,000
	Total		\$	16,650,000

Gum Cove Ridge
Hydrologic Restoration
Project ID: 004.HR.10



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	Southwest Coastal Louisiana Feasibility Study
Project Status	Planning and Feasibility
Description	Structure on the GIWW bank in the vicinity of Gum Cove Ridge to reduce salinity intrusion south of the GIWW.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	2636 ac	6623 ac
Long Term (Year 50)	4049 ac	28882 ac
Project Cost Estimate	Planning/Engineering & Design	\$19,240,000
	Estimated Cost Construction	\$240,480,000
	Operations & Maintenance (50 years)	\$48,100,000
	Total	\$307,820,000

Project ID: 004.HR.21



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source Southwest Coastal Louisiana Feasibility Study

Project Status Planning and Feasibility

Description	Construction of two rock sills in Southwest Pass to reduce tidal exchange through the pass west of Marsh Island.
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Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

26 ac

13 ac

Long Term (Year 50)

18 ac

146 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 28,400,000

Estimated Cost Construction

\$ 355,038,000

Operations & Maintenance (50 years)

\$ 130,840,000

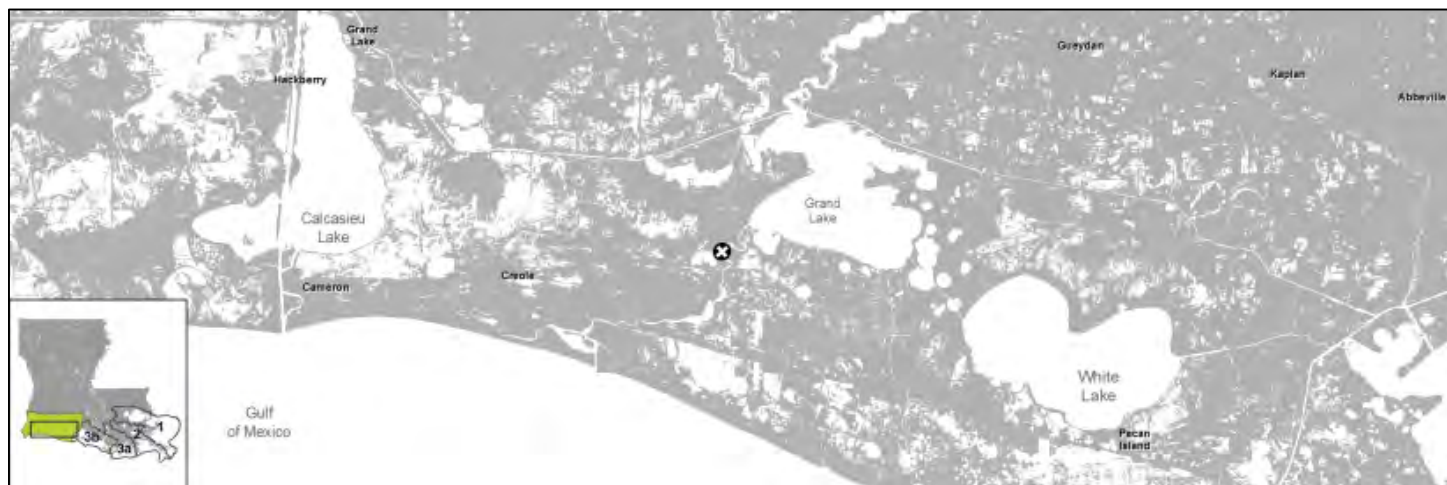
Total

\$ 514,278,000

Project ID: 004.HR.23



Planning Unit 4



Project Status Planning and Feasibility

Description	Dredging of a spillway structure (150-foot width and 10-foot depth) at the current water control structure on Humble Canal southwest of Grand Lake to increase freshwater exchange with adjacent wetlands.
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Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

-648 ac

-5805 ac

Long Term (Year 50)

-961 ac

-15076 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 40,000

Estimated Cost Construction

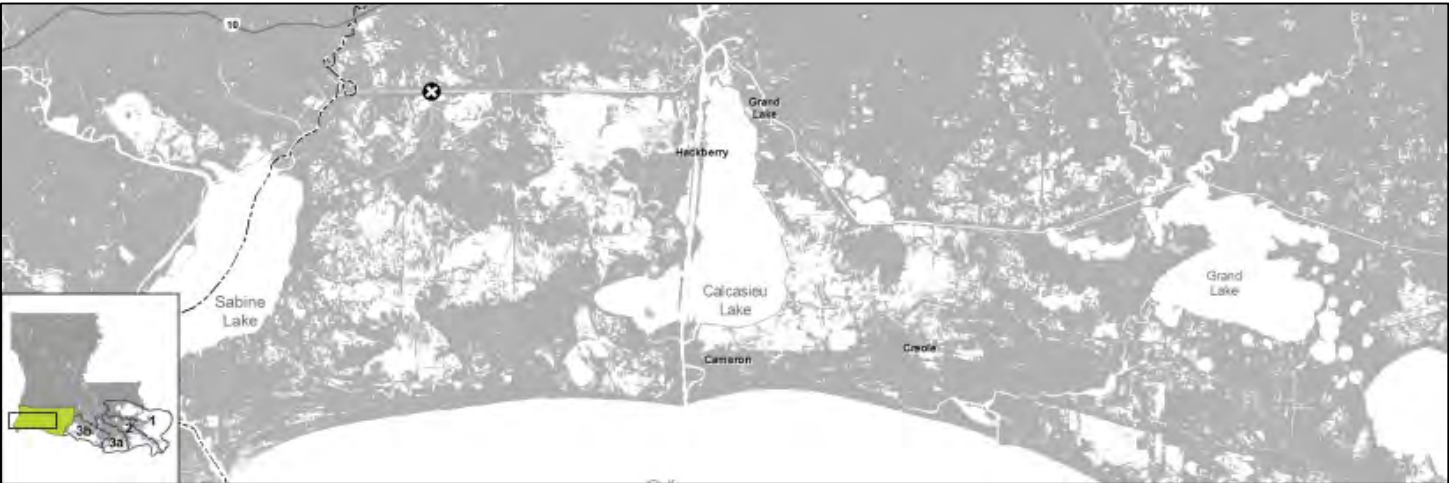
\$ 459,000

Operations & Maintenance (50 years)

\$ 70,000

Total

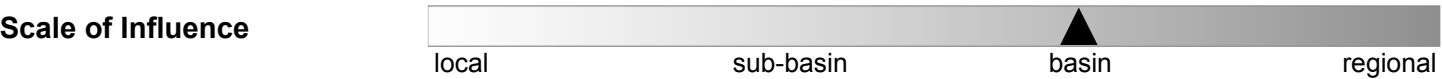
\$ 569,000



Project Source MLODS

Project Status Conceptual Phase

Description Diversion of the Sabine River into wetlands south of the GIWW that would be operated at a maximum of 5,000 cfs based on head differential.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	-8 ac	65 ac
Long Term (Year 50)	24 ac	23 ac

Project Cost Estimate		
Planning/Engineering & Design	\$	2,990,000
Estimated Cost Construction	\$	37,318,000
Operations & Maintenance (50 years)	\$	7,460,000
Total	\$	47,768,000

South Mermentau Basin

Marsh Creation

Project ID: 004.MC.02



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Creation of approximately 9,370 acres of marsh south of Highway LA-82 near Pecan Island (through sediment dredging of Tiger Shoal and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence

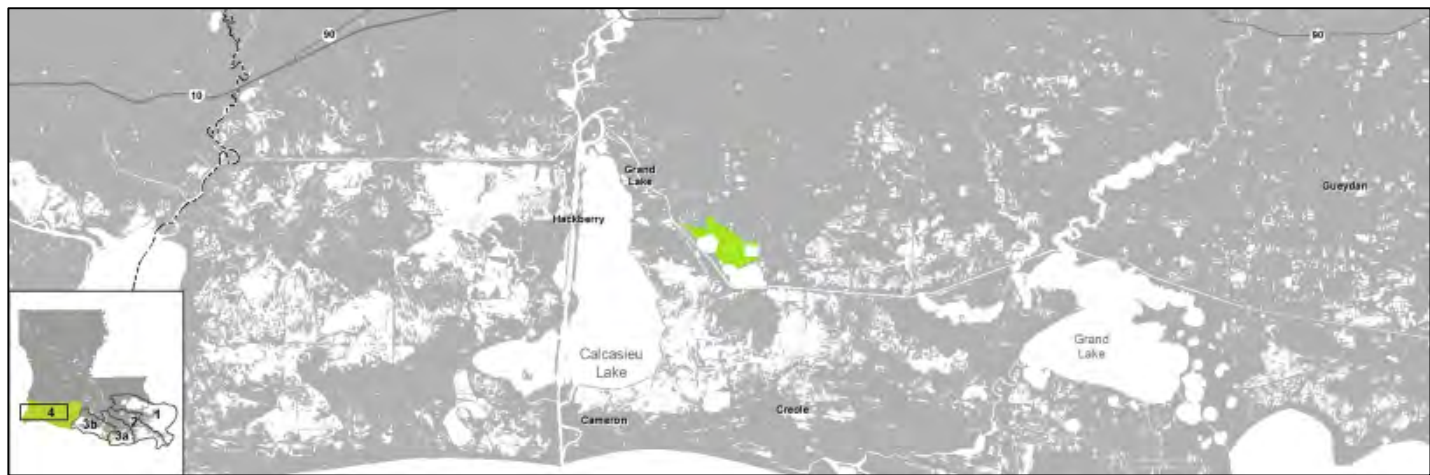


Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	9355 ac	9403 ac
Long Term (Year 50)	9351 ac	9427 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 235,000,000
Estimated Cost Construction	\$ 3,179,472,000
Operations & Maintenance (50 years)	\$ 29,390,000
Total	\$ 3,443,862,000



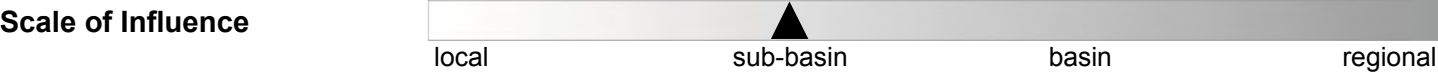
Project Source	Southwest Coastal Louisiana Feasibility Study		
Project Status	Planning and Feasibility		
Description	Creation of approximately 2,550 acres of marsh at Sweet Lake north of the GIWW (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	2464 ac	2553 ac
	Long Term (Year 50)	2474 ac	1406 ac
Project Cost Estimate	Planning/Engineering & Design		\$ 65,760,000
	Estimated Cost Construction		\$ 795,977,000
	Operations & Maintenance (50 years)		\$ 8,540,000
	Total		\$ 870,277,000



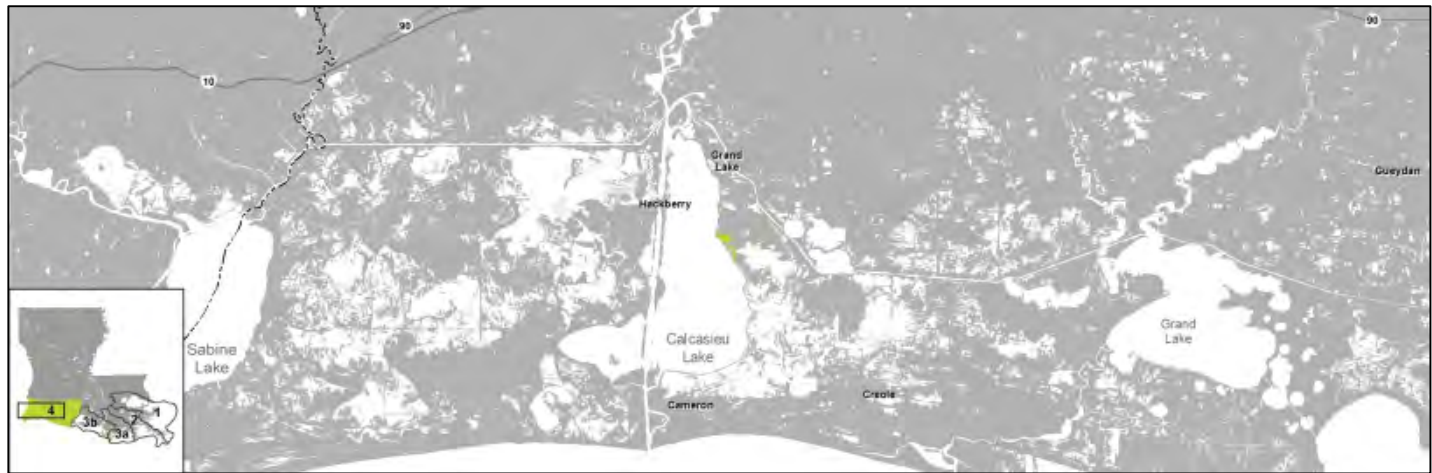
Project Source Southwest Coastal Louisiana Feasibility Study

Project Status Planning and Feasibility

Description Creation of approximately 1,390 acres of marsh at Rainey Marsh near Cole’s Bayou (through sediment dredging of Tiger Shoal and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate		Less Optimistic	
	Near Term (Year 20)		1550 ac	
	Long Term (Year 50)		1863 ac	
Project Cost Estimate	Planning/Engineering & Design		\$	31,900,000
	Estimated Cost Construction		\$	382,787,000
	Operations & Maintenance (50 years)		\$	5,190,000
	Total		\$	419,877,000



Project Source

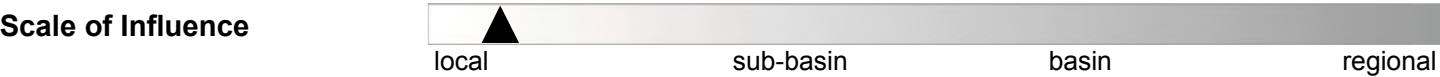
Southwest Coastal Louisiana Feasibility Study

Project Status

Planning and Feasibility

Description

Creation of approximately 310 acres of marsh at Commissary Point (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	308 ac	309 ac
Long Term (Year 50)	308 ac	93 ac
Project Cost Estimate		
Planning/Engineering & Design	\$	7,820,000
Estimated Cost Construction	\$	93,891,000
Operations & Maintenance (50 years)	\$	1,750,000
Total	\$	103,461,000

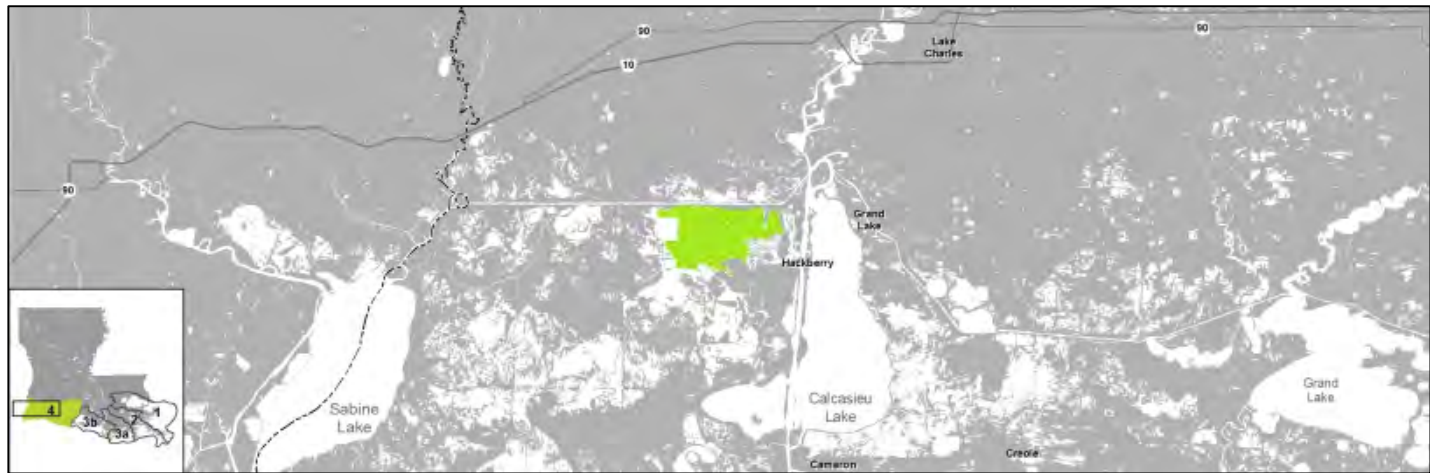
Northwest Calcasieu Lake (North of Hackberry)

Marsh Creation

Project ID: 004.MC.17



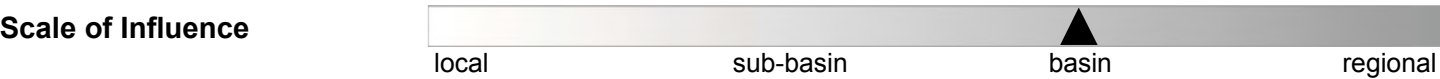
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase

Description

Creation of approximately 13,190 acres of marsh northwest of Calcasieu Lake north of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	13058 ac	13134 ac
Long Term (Year 50)	13111 ac	13085 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 312,430,000
Estimated Cost Construction		\$ 4,529,322,000
Operations & Maintenance (50 years)		\$ 47,540,000
Total		\$ 4,889,292,000

Northwest Calcasieu Lake (North of Hackberry)- Component A Marsh Creation

Project ID: 004.MC.17a



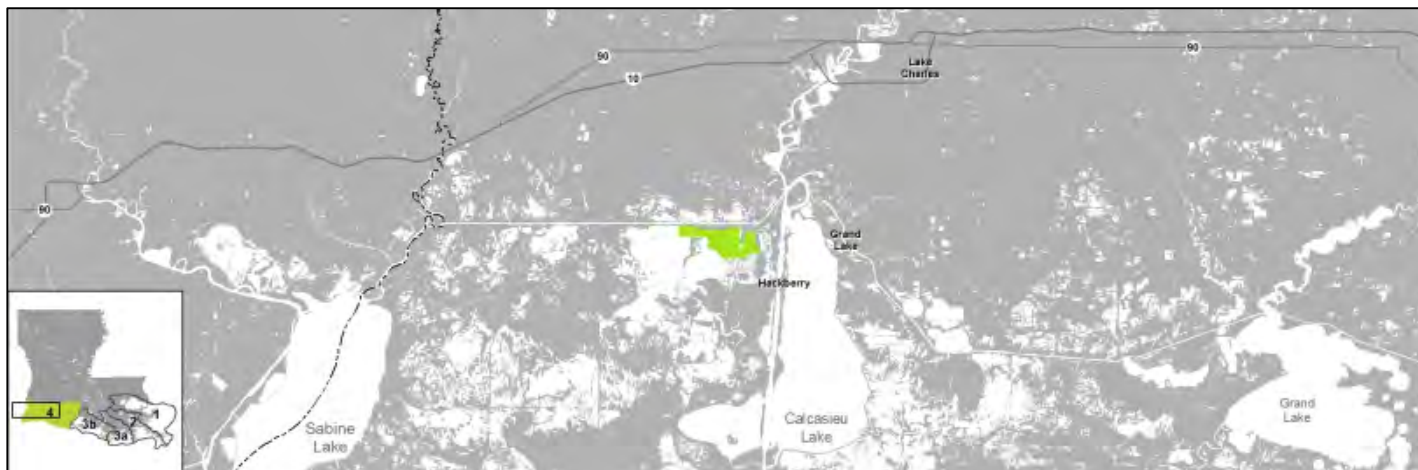
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,830 acres of marsh northwest of Calcasieu Lake north of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 004.MC.17).

Scale of Influence



Land Area

Moderate

Less Optimistic

Near Term (Year 20)

3224 ac

3250 ac

Long Term (Year 50)

3239 ac

2728 ac

Project Cost Estimate

Planning/Engineering & Design

\$ 106,040,000

Estimated Cost Construction

\$ 1,313,503,000

Operations & Maintenance (50 years)

\$ 13,790,000

Total

\$ 1,433,333,000

Northwest Calcasieu Lake (North of Hackberry)- Component B Marsh Creation

Project ID: 004.MC.17b



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,960 acres of marsh northwest of Calcasieu Lake north of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 004.MC.17).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3619 ac	3628 ac
Long Term (Year 50)	3624 ac	3448 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 109,470,000
Estimated Cost Construction	\$ 1,358,797,000
Operations & Maintenance (50 years)	\$ 14,260,000
Total	\$ 1,482,527,000

Northwest Calcasieu Lake (North of Hackberry)- Component C Marsh Creation

Project ID: 004.MC.17c



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 5,410 acres of marsh northwest of Calcasieu Lake north of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 004.MC.17).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	5199 ac	5208 ac
Long Term (Year 50)	5201 ac	5207 ac

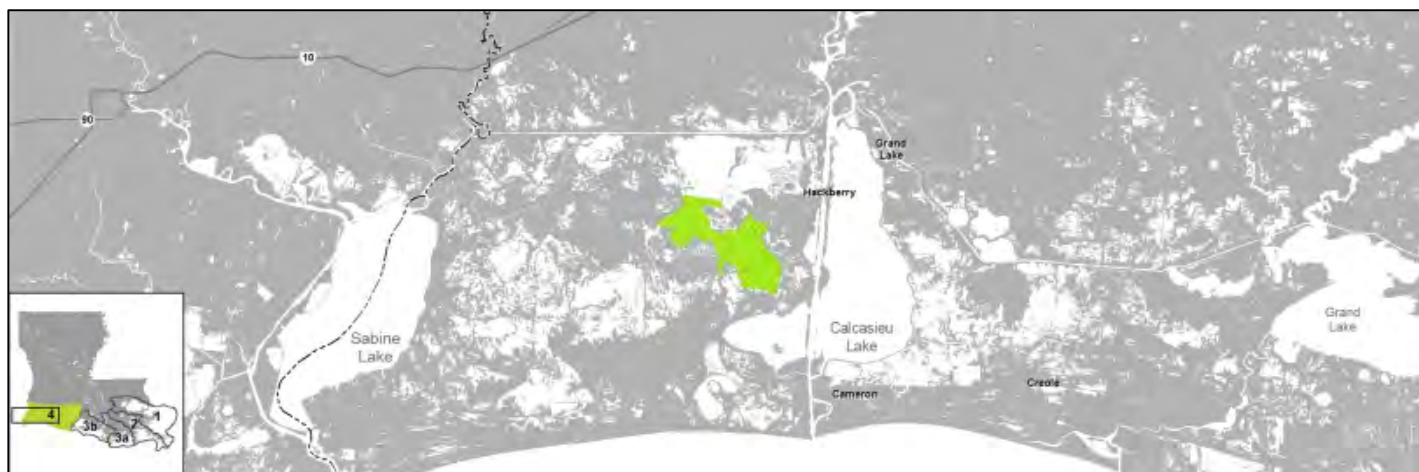
Project Cost Estimate

Planning/Engineering & Design	\$ 146,230,000
Estimated Cost Construction	\$ 1,857,022,000
Operations & Maintenance (50 years)	\$ 19,490,000
Total	\$ 2,022,742,000

Project ID: 004.MC.18



Planning Unit 4



LACPR

Conceptual Phase

Creation of approximately 10,950 acres of marsh northwest of Calcasieu Lake south of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

local sub-basin basin regional

Less Optimistic

Near Term (Year 20)

10762 ac

11445 ac

Long Term (Year 50)

11016 ac

4758 ac

Planning/Engineering & Design

\$ 273,840,000

Estimated Cost Construction

\$ 3,827,639,000

Operations & Maintenance (50 years)

\$ 40,880,000

Total

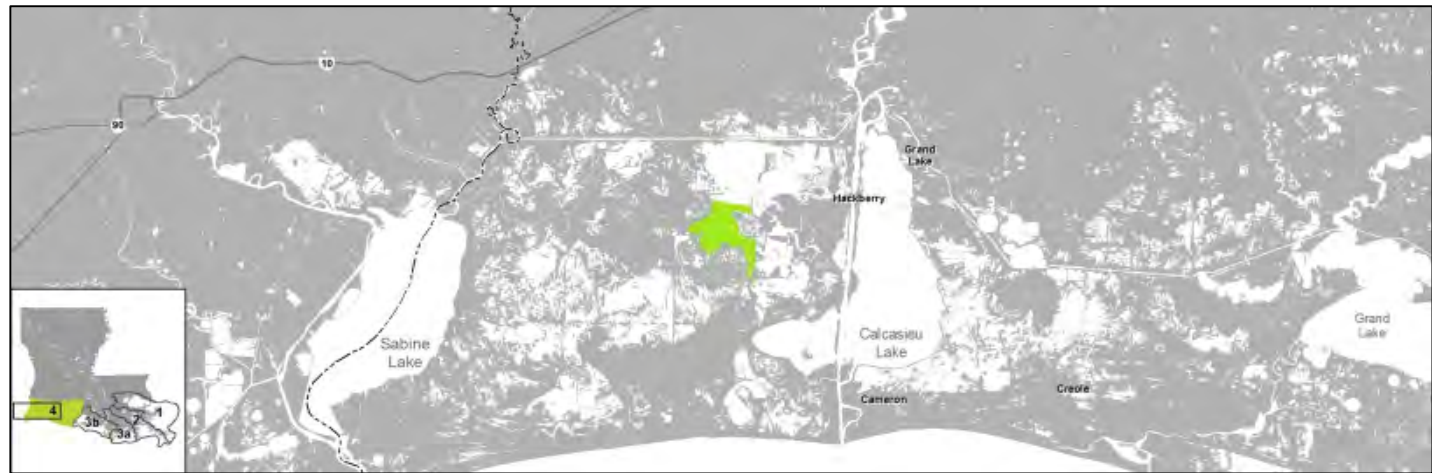
\$ 4,142,359,000

Northwest Calcasieu Lake (South of Hackberry)- Component A
Marsh Creation

Project ID: 004.MC.18a



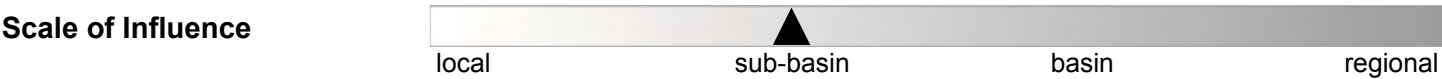
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 4,820 acres of marsh northwest of Calcasieu Lake south of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (western component of 004.MC.18).



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	4478 ac	4490 ac
Long Term (Year 50)	4475 ac	310 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 133,680,000
Estimated Cost Construction		\$ 1,684,161,000
Operations & Maintenance (50 years)		\$ 17,990,000
Total		\$ 1,835,831,000

Northwest Calcasieu Lake (South of Hackberry)- Component B Marsh Creation

Project ID: 004.MC.18b



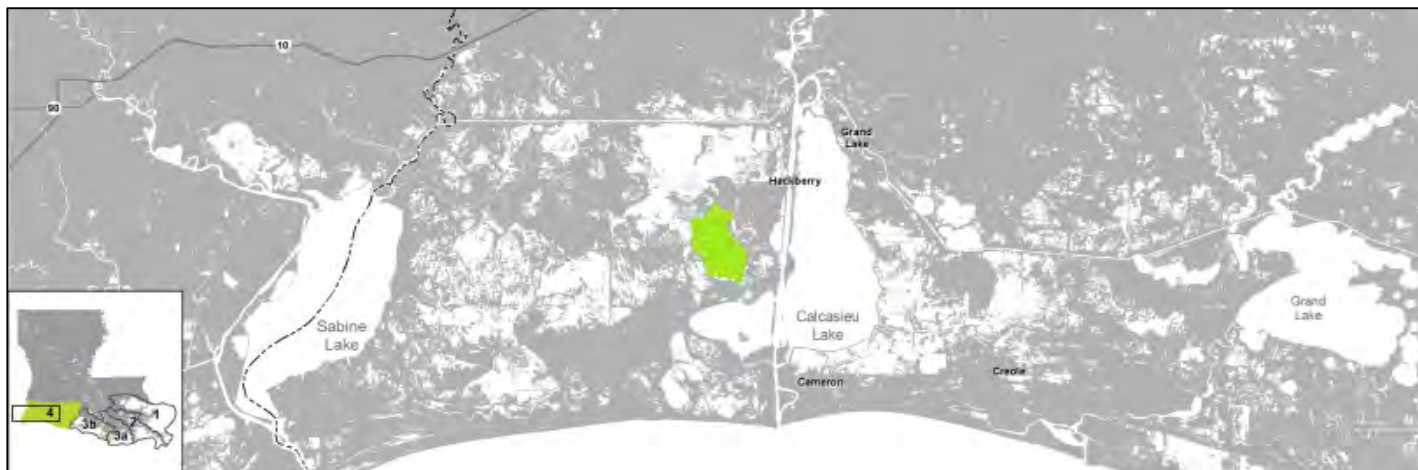
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 6,130 acres of marsh northwest of Calcasieu Lake south of Hackberry (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion (eastern component of 004.MC.18).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	5362 ac	5499 ac
Long Term (Year 50)	5381 ac	2539 ac

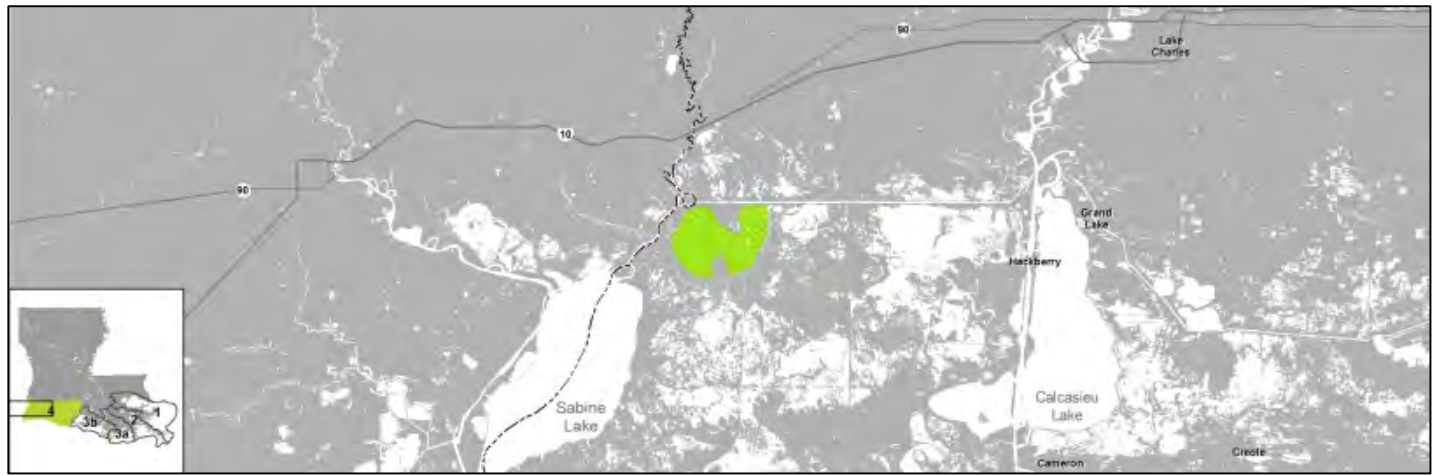
Project Cost Estimate

Planning/Engineering & Design	\$ 166,540,000
Estimated Cost Construction	\$ 2,143,478,000
Operations & Maintenance (50 years)	\$ 22,890,000
Total	\$ 2,332,908,000

Black Bayou
Marsh Creation
Project ID: 004.MC.20



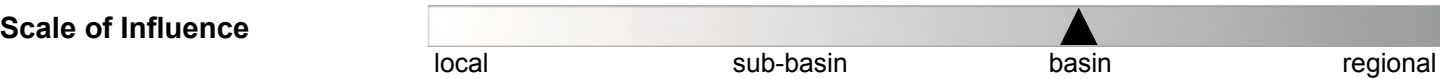
- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source LACPR

Project Status Conceptual Phase

Description Creation of approximately 5,050 acres of marsh at Black Bayou northwest of Sabine National Wildlife Refuge (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	5010 ac	5349 ac
Long Term (Year 50)	5239 ac	6269 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 123,730,000
	Estimated Cost Construction	\$ 1,549,198,000
	Operations & Maintenance (50 years)	\$ 16,430,000
	Total	\$ 1,689,358,000

Gum Cove Marsh Creation

Project ID: 004.MC.21



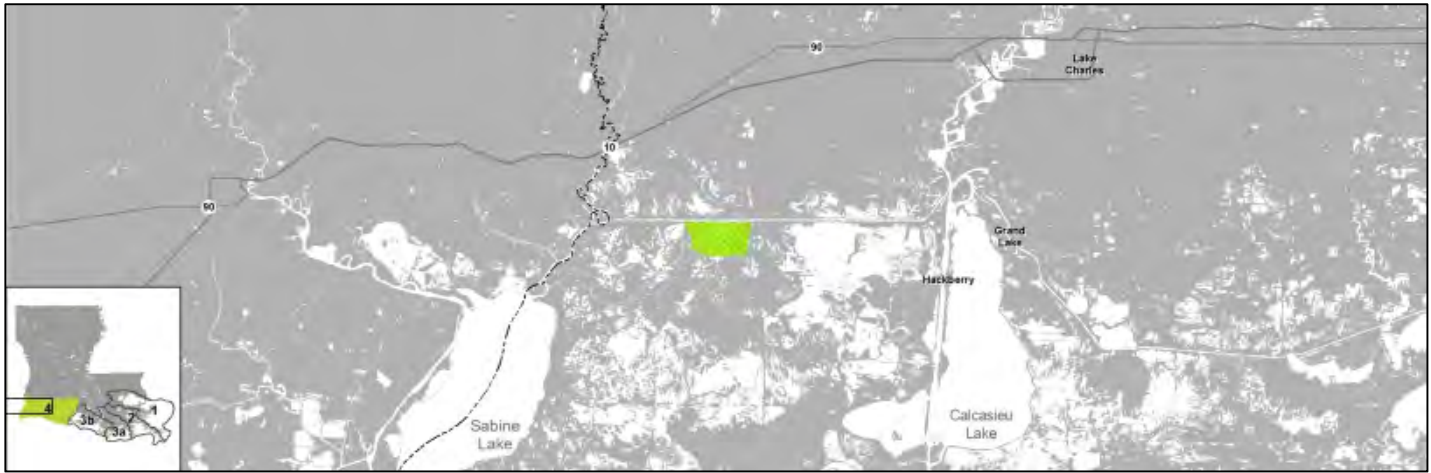
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,300 acres of marsh at Gum Cove north of Sabine National Wildlife Refuge (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	3353 ac	3402 ac
Long Term (Year 50)	3373 ac	180 ac

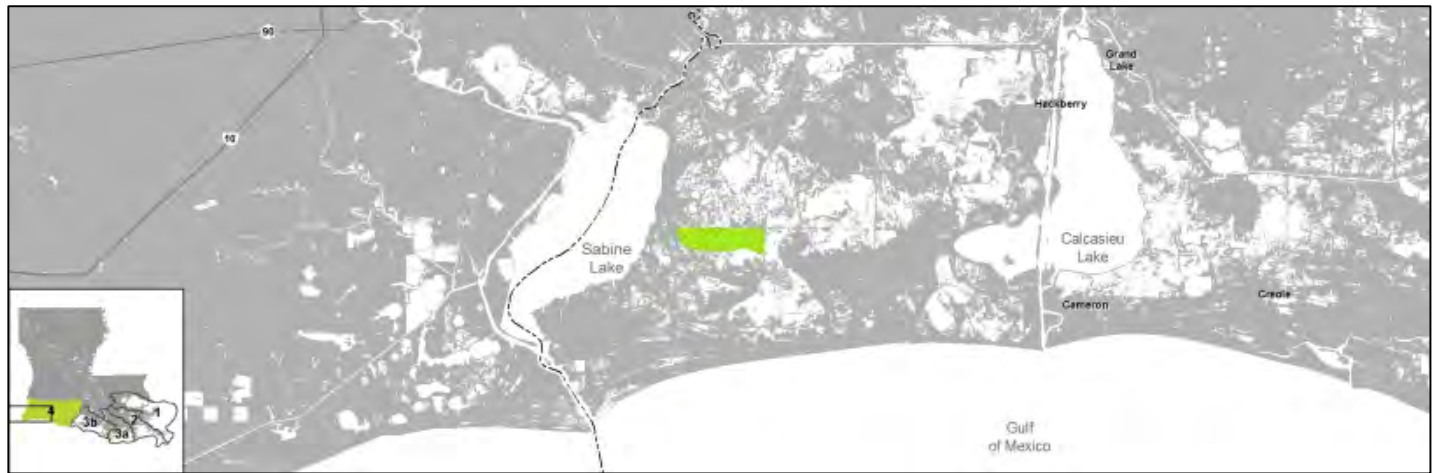
Project Cost Estimate

Planning/Engineering & Design	\$ 108,210,000
Estimated Cost Construction	\$ 1,342,121,000
Operations & Maintenance (50 years)	\$ 10,910,000
Total	\$ 1,461,241,000

Central Canal
Marsh Creation
Project ID: 004.MC.22



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source

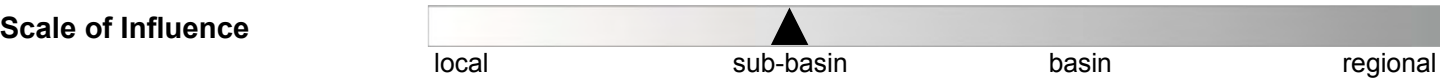
LACPR

Project Status

Conceptual Phase

Description

Creation of approximately 3,800 acres of marsh at Central Canal southwest of Sabine National Wildlife Refuge (through sediment dredging of offshore sites and placement at an elevation of 3.2 feet NAVD88) to create new wetland habitat, restore degraded marsh, and reduce wave erosion.



Land Area	Moderate	Less Optimistic
Near Term (Year 20)	3557 ac	3697 ac
Long Term (Year 50)	3608 ac	3945 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 60,690,000
Estimated Cost Construction		\$ 732,522,000
Operations & Maintenance (50 years)		\$ 12,590,000
Total		\$ 805,802,000

Southwest Louisiana

Shoreline Protection

Project ID: 004.BH.03



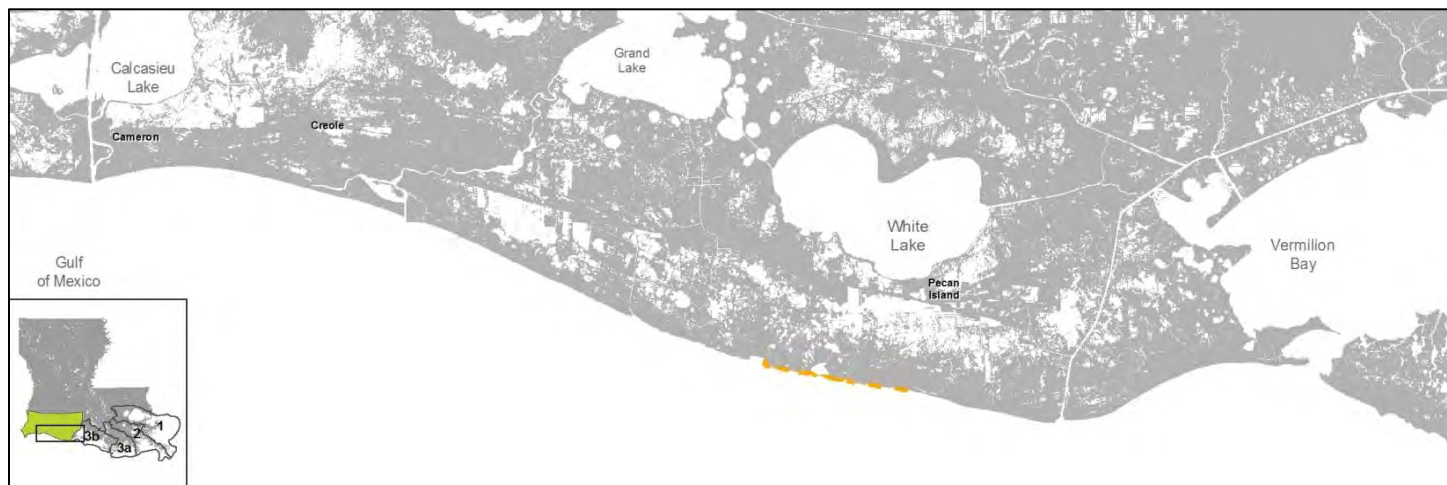
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, CWPPRA

Project Status

Conceptual Phase/Engineering and Design

Description

Shoreline protection through rock and low wave action breakwaters of approximately 48,000 feet of Gulf shoreline south of Pecan Island to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	113 ac	109 ac
Long Term (Year 50)	103 ac	114 ac

Project Cost Estimate

Planning/Engineering & Design	\$	5,720,000
Estimated Cost Construction	\$	71,550,000
Operations & Maintenance (50 years)	\$	13,230,000
Total	\$	90,500,000

Rockefeller Refuge

Shoreline Protection

Project ID: 004.SP.01



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4**



Project Source	CWPPRA		
Project Status	Engineering and Design		
Description	Shoreline protection through rock and low wave action breakwaters of approximately 50,000 feet of Gulf shoreline at Rockefeller Wildlife Management Area and Game Preserve to preserve shoreline integrity and reduce wetland degradation from wave erosion.		
Scale of Influence	<div><div></div><div></div><div></div><div></div></div> <div>localsub-basinsbasinregional</div>		
Land Area		Moderate	Less Optimistic
	Near Term (Year 20)	121 ac	154 ac
	Long Term (Year 50)	125 ac	95 ac
Project Cost Estimate	Planning/Engineering & Design	\$ 6,550,000	
	Estimated Cost Construction	\$ 78,256,000	
	Operations & Maintenance (50 years)	\$ 13,980,000	
	Total	\$ 98,786,000	

Gulf (Calcasieu River to Freshwater Bayou)

Shoreline Protection

Project ID: 004.SP.05



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Shoreline protection through rock breakwaters, sand, and bioengineered oyster reefs of approximately 348,000 feet of Gulf shoreline between Calcasieu River and Freshwater Bayou to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	528 ac	572 ac
Long Term (Year 50)	499 ac	613 ac

Project Cost Estimate

Planning/Engineering & Design	\$ 63,260,000
Estimated Cost Construction	\$ 796,475,000
Operations & Maintenance (50 years)	\$ 303,420,000
Total	\$ 1,163,155,000

Gulf (Calcasieu River to Lower Mud Lake)

Shoreline Protection

Project ID: 004.SP.05b



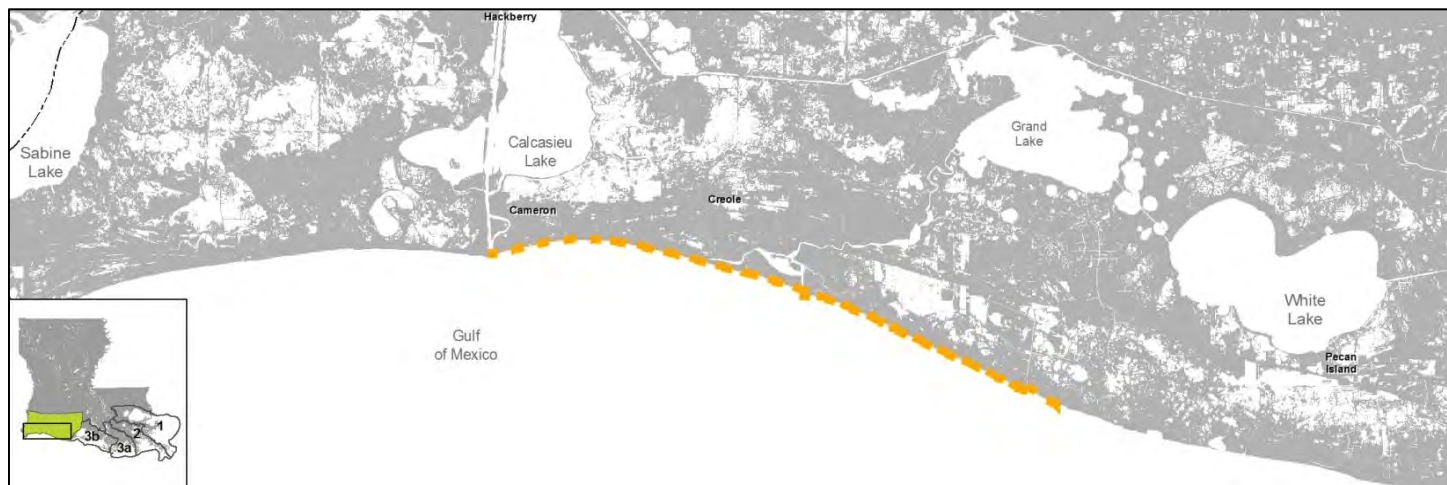
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

LACPR, Southwest Coastal Louisiana Feasibility Study

Project Status

Conceptual Phase/Planning and Feasibility

Description

Shoreline protection through rock breakwaters of approximately 206,000 feet of Gulf shoreline between Calcasieu River and Lower Mud Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion (component of 004.SP.05).

Scale of Influence



Land Area

	Moderate	Less Optimistic
Near Term (Year 20)	318 ac	348 ac
Long Term (Year 50)	316 ac	371 ac

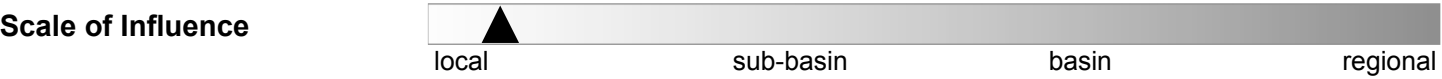
Project Cost Estimate

Planning/Engineering & Design	\$ 15,270,000
Estimated Cost Construction	\$ 190,877,000
Operations & Maintenance (50 years)	\$ 38,330,000
Total	\$ 244,477,000



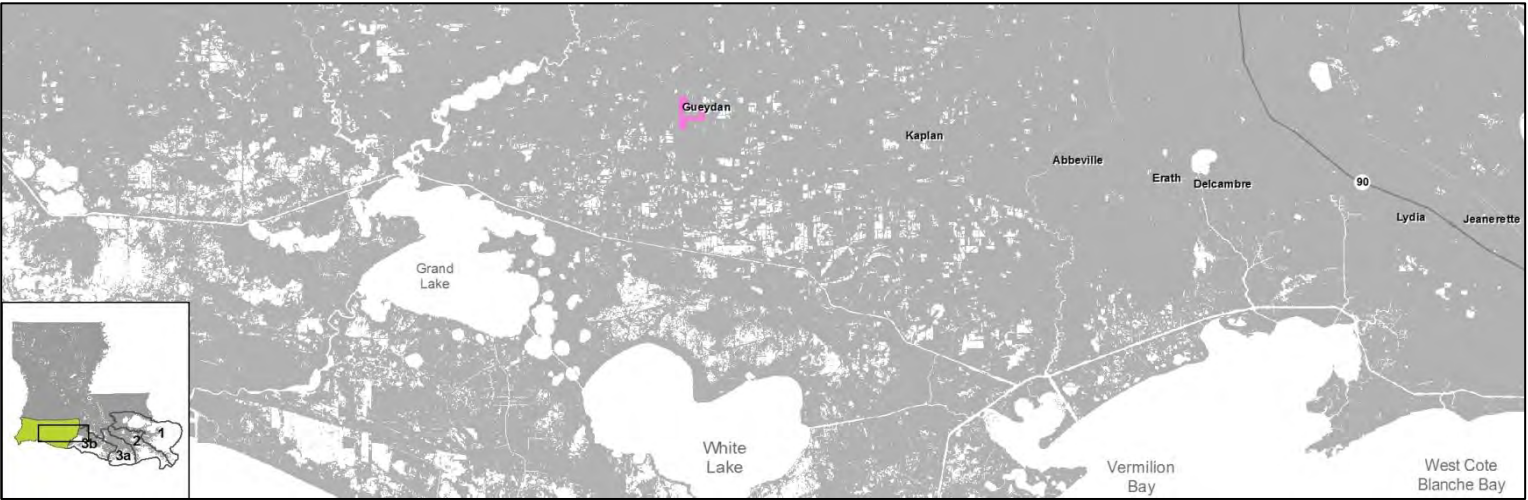
Project Source	LACPR
Project Status	Conceptual Phase

Description	Shoreline protection through rock breakwaters of approximately 26,000 feet of shoreline in southeast and northwestern Grand Lake to preserve shoreline integrity and reduce wetland degradation from wave erosion.
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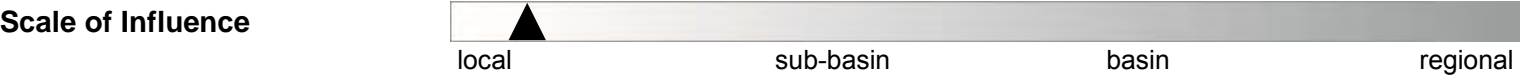


Land Area	Moderate	Less Optimistic
Near Term (Year 20)	106 ac	107 ac
Long Term (Year 50)	106 ac	266 ac
Project Cost Estimate		
Planning/Engineering & Design		\$ 1,410,000
Estimated Cost Construction		\$ 17,571,000
Operations & Maintenance (50 years)		\$ 8,620,000
Total		\$ 27,601,000

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Project Source	Southwest Coastal Louisiana Feasibility Study		
Project Status	Planning and Feasibility		
Description	Construction of a ring levee around Gueydan to an elevation of 9.0 feet for hurricane storm surge risk reduction. Project features include approximately 31,000 feet of earthen levee and one pump with a capacity of 600 cubic feet per second.		



Project Cost Estimate:	Planning / Engineering & Design	\$	3,100,000
	Estimated Cost Construction	\$	33,000,000
	Operations & Maintenance (50 Years)	\$	21,350,000
	Total	\$	57,450,000

Gueydan Ring Levee

Structural Protection

Project ID: 004.HP.03



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA to Vermilion Parish for the 100 year flood event under the moderate scenario. However, model results indicate the project could lead to elevated water levels for the 50 and 500 year storm surge events under the moderate scenario. N/A indicates that this project was not evaluated under the less optimistic scenario.

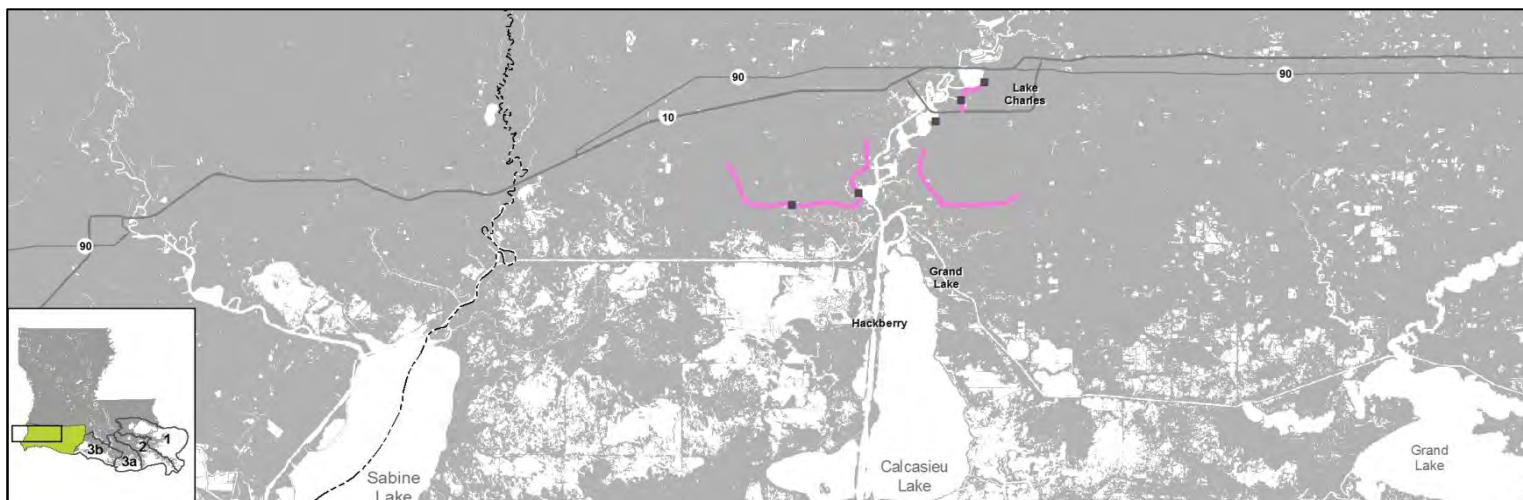
Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Vermilion Parish	\$3,401M	\$3,402M	\$6,105M	\$6,091M	\$12,104M	\$12,368M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Vermilion Parish	N/A	N/A	N/A	N/A	N/A	N/A

Project ID: 004.HP.11



Planning Unit 4



Description	Construction of a ring levee to an elevation of 14.4 feet NAVD south of Lake Charles and Sulphur for hurricane risk reduction. Project features include approximately 134,000 feet of earthen levee, 6,500 feet of concrete T-wall, three 56-foot sector gates, one 110-foot barge gate, and one 220-foot barge gate.
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local sub-basin basin regional

Project Cost Estimate:	Planning / Engineering & Design	\$	35,500,000
	Estimated Cost Construction	\$	373,000,000
	Operations & Maintenance (50 Years)	\$	114,500,000
	Total	\$	523,000,000

Lake Charles Ring Levee (South)

Structural Protection

Project ID: 004.HP.11



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for the communities listed below for the 50 and 100 year storm surge events under the moderate scenario and for the 100 and 500 year storm surge events under the less optimistic scenario. However, model results indicate the project could lead to elevated water levels in Calcasieu Parish and Sulphur for the 500 year flood event under the moderate scenario, and also to elevated water levels in Calcasieu Parish and Lake Charles for the 50 year storm surge event under the less optimistic scenario.

Moderate Scenario Community	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Calcasieu Parish	\$241M	\$239M	\$1,356M	\$1,128M	\$7,426M	\$7,605M
Lake Charles	\$100M	\$98M	\$554M	\$271M	\$11,507M	\$7,733M
Sulphur	\$0M	\$0M	\$0M	\$0M	\$2,121M	\$3,040M

Less Optimistic Scenario Community	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Calcasieu Parish	\$611M	\$613M	\$3,063M	\$2,203M	\$9,522M	\$8,140M
Lake Charles	\$116M	\$118M	\$2,265M	\$427M	\$13,735M	\$11,126M
Sulphur	\$0M	\$0M	\$14M	\$8M	\$6,467M	\$4,472M

Southwest GIWW Alignment (High)

Structural Protection

Project ID: 004.HP.12



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 21.4 feet NAVD along the GIWW from Freshwater Bayou to the Sabine River for hurricane storm surge risk reduction. Project features include approximately 519,000 feet of levee, 15,000 feet of concrete T-wall, one 56-foot sector gate, five 110-foot barge gates, and five 220-foot barge gates.



Project Cost Estimate:	Planning / Engineering & Design	\$	190,390,000
	Estimated Cost Construction	\$	2,180,000,000
	Operations & Maintenance (50 Years)	\$	428,850,000
	Total	\$	2,799,240,000

Southwest GIWW Alignment (High)

Structural Protection

Project ID: 004.HP.12



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels in Baldwin in both scenarios, and to elevated water levels in Abbeville for the 50 and 100 year flood events in the moderate scenario.

Moderate Scenario		50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community		<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville		\$105M	\$107M	\$646M	\$655M	\$2,983M	\$2,860M
Acadia Parish		\$0M	\$0M	\$54M	\$0M	\$237M	\$2M
Baldwin		\$34M	\$34M	\$69M	\$70M	\$208M	\$208M
Calcasieu Parish		\$241M	\$169M	\$1,356M	\$326M	\$7,426M	\$1,414M
Cameron Parish		\$2,508M	\$2,382M	\$3,638M	\$3,344M	\$6,648M	\$5,687M
Jefferson Davis Parish		\$13M	\$1M	\$116M	\$3M	\$1,258M	\$11M
Lake Charles		\$100M	\$0M	\$554M	\$1M	\$11,507M	\$3M
Sulphur		\$0M	\$0M	\$0M	\$0M	\$2,121M	\$0M
Vermilion Parish		\$3,401M	\$3,361M	\$6,105M	\$5,639M	\$12,104M	\$9,943M
Westlake		\$44M	\$1M	\$372M	\$3M	\$2,012M	\$4M

Less Optimistic Scenario		50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community		<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville		\$459M	\$452M	\$2,260M	\$2,130M	\$6,743M	\$6,533M
Acadia Parish		\$33M	\$0M	\$160M	\$2M	\$624M	\$9M
Baldwin		\$51M	\$51M	\$126M	\$127M	\$355M	\$357M
Calcasieu Parish		\$611M	\$367M	\$3,063M	\$563M	\$9,522M	\$3,291M
Cameron Parish		\$3,162M	\$3,047M	\$4,516M	\$4,468M	\$7,118M	\$5,837M
Jefferson Davis Parish		\$85M	\$5M	\$890M	\$11M	\$2,594M	\$66M
Lake Charles		\$116M	\$14M	\$2,265M	\$109M	\$13,735M	\$233M
Sulphur		\$0M	\$0M	\$14M	\$0M	\$6,467M	\$0M
Vermilion Parish		\$5,718M	\$5,402M	\$10,531M	\$9,001M	\$15,284M	\$12,497M
Westlake		\$66M	\$48M	\$750M	\$65M	\$2,512M	\$349M

Southwest GIWW Alignment (Low)

Structural Protection

Project ID: 004.HP.13



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 12.0 feet NAVD along the GIWW from Freshwater Bayou to the Sabine River for hurricane storm surge risk reduction. Project features include approximately 519,000 feet of levee, 15,000 feet of concrete T-wall, one 56-foot sector gate, five 110-foot barge gates, and five 220-foot barge gates.



Project Cost Estimate:	Planning / Engineering & Design	\$	96,820,000
	Estimated Cost Construction	\$	1,044,000,000
	Operations & Maintenance (50 Years)	\$	428,850,000
	Total	\$	1,569,670,000

Southwest GIWW Alignment (Low)

Structural Protection

Project ID: 004.HP.13



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for most of the communities listed below for all three storm surge events under both scenarios. However, model results indicate the project could lead to elevated water levels in Baldwin for all three storm surge events under the less optimistic scenario. Model results also indicate the project could lead to elevated water levels in Abbeville for the 50 and 100 year flood events under the moderate scenario and the 50, 100, and 500 year flood events under the less optimistic scenario. Furthermore, the project could result in elevated water levels in Cameron Parish for the 100 year flood event and Lake Charles and Vermillion Parish for the 500 year flood event under the less optimistic scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$105M	\$107M	\$646M	\$652M	\$2,983M	\$2,871M
Acadia Parish	\$0M	\$0M	\$54M	\$0M	\$237M	\$18M
Baldwin	\$34M	\$34M	\$69M	\$70M	\$208M	\$208M
Calcasieu Parish	\$241M	\$168M	\$1,356M	\$323M	\$7,426M	\$3,758M
Cameron Parish	\$2,508M	\$2,377M	\$3,638M	\$3,324M	\$6,648M	\$5,717M
Jefferson Davis Parish	\$13M	\$1M	\$116M	\$3M	\$1,258M	\$19M
Lake Charles	\$100M	\$1M	\$554M	\$4M	\$11,507M	\$3,738M
Sulphur	\$0M	\$0M	\$0M	\$0M	\$2,121M	\$4M
Vermilion Parish	\$3,401M	\$3,339M	\$6,105M	\$5,622M	\$12,104M	\$10,561M
Westlake	\$44M	\$2M	\$372M	\$31M	\$2,012M	\$675M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>	<i>FWOA</i>	<i>FWP</i>
Abbeville	\$459M	\$508M	\$2,260M	\$3,160M	\$6,743M	\$7,778M
Acadia Parish	\$33M	\$1M	\$160M	\$39M	\$624M	\$517M
Baldwin	\$51M	\$52M	\$126M	\$185M	\$355M	\$999M
Calcasieu Parish	\$611M	\$364M	\$3,063M	\$1,030M	\$9,522M	\$9,016M
Cameron Parish	\$3,162M	\$3,049M	\$4,516M	\$4,584M	\$7,118M	\$6,441M
Jefferson Davis Parish	\$85M	\$10M	\$890M	\$166M	\$2,594M	\$1,528M
Lake Charles	\$116M	\$8M	\$2,265M	\$357M	\$13,735M	\$24,411M
Sulphur	\$0M	\$0M	\$14M	\$0M	\$6,467M	\$5,723M
Vermilion Parish	\$5,718M	\$5,422M	\$10,531M	\$9,417M	\$15,284M	\$15,332M
Westlake	\$66M	\$45M	\$750M	\$77M	\$2,512M	\$2,414M

Southwest GIWW Alignment (Medium)

Structural Protection

Project ID: 004.HP.14



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4



Project Source	LACPR
Project Status	Conceptual Phase
Description	Construction of a levee to an elevation of 15.0 feet NAVD along the GIWW from Freshwater Bayou to the Sabine River for hurricane storm surge risk reduction. Project features include approximately 519,000 feet of levee, 15,000 feet of concrete T-wall, one 56-foot sector gate, five 110-foot barge gates, and five 220-foot barge gates.



Project Cost Estimate:	Planning / Engineering & Design	\$	125,150,000
	Estimated Cost Construction	\$	1,372,000,000
	Operations & Maintenance (50 Years)	\$	428,850,000
	Total	\$	1,926,000,000

Southwest GIWW Alignment (Medium)

Structural Protection

Project ID: 004.HP.14



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4

Estimated Damage Dollars by Community

The following are the estimated damages in the Future Without Action (FWOA) and Future With Project (FWP) conditions under both the moderate and less optimistic scenarios.

This project provides risk reduction compared to FWOA for most of the communities listed below under both scenarios. However, model results indicate the project could lead to elevated water levels in Baldwin under both scenarios. Model results also indicate the project could lead to elevated water levels in Abbeville for the 50 and 100 year flood events under the moderate scenario and in Cameron Parish for the 100 year flood event under the less optimistic scenario.

Moderate Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Abbeville	\$105M	\$107M	\$646M	\$652M	\$2,983M	\$2,846M
Acadia Parish	\$0M	\$0M	\$54M	\$0M	\$237M	\$2M
Baldwin	\$34M	\$34M	\$69M	\$70M	\$208M	\$213M
Calcasieu Parish	\$241M	\$169M	\$1,356M	\$322M	\$7,426M	\$1,602M
Cameron Parish	\$2,508M	\$2,382M	\$3,638M	\$3,331M	\$6,648M	\$5,698M
Jefferson Davis Parish	\$13M	\$1M	\$116M	\$3M	\$1,258M	\$11M
Lake Charles	\$100M	\$0M	\$554M	\$3M	\$11,507M	\$101M
Sulphur	\$0M	\$0M	\$0M	\$0M	\$2,121M	\$0M
Vermilion Parish	\$3,401M	\$3,355M	\$6,105M	\$5,652M	\$12,104M	\$10,054M
Westlake	\$44M	\$1M	\$372M	\$4M	\$2,012M	\$60M

Less Optimistic Scenario	50 Year Flood Event		100 Year Flood Event		500 Year Flood Event	
Community	FWOA	FWP	FWOA	FWP	FWOA	FWP
Abbeville	\$459M	\$453M	\$2,260M	\$2,134M	\$6,743M	\$6,580M
Acadia Parish	\$33M	\$0M	\$160M	\$3M	\$624M	\$40M
Baldwin	\$51M	\$52M	\$126M	\$128M	\$355M	\$358M
Calcasieu Parish	\$611M	\$330M	\$3,063M	\$559M	\$9,522M	\$5,114M
Cameron Parish	\$3,162M	\$3,013M	\$4,516M	\$4,544M	\$7,118M	\$5,863M
Jefferson Davis Parish	\$85M	\$5M	\$890M	\$12M	\$2,594M	\$82M
Lake Charles	\$116M	\$6M	\$2,265M	\$98M	\$13,735M	\$7,978M
Sulphur	\$0M	\$0M	\$14M	\$0M	\$6,467M	\$53M
Vermilion Parish	\$5,718M	\$5,387M	\$10,531M	\$9,000M	\$15,284M	\$12,598M
Westlake	\$66M	\$45M	\$750M	\$57M	\$2,512M	\$974M



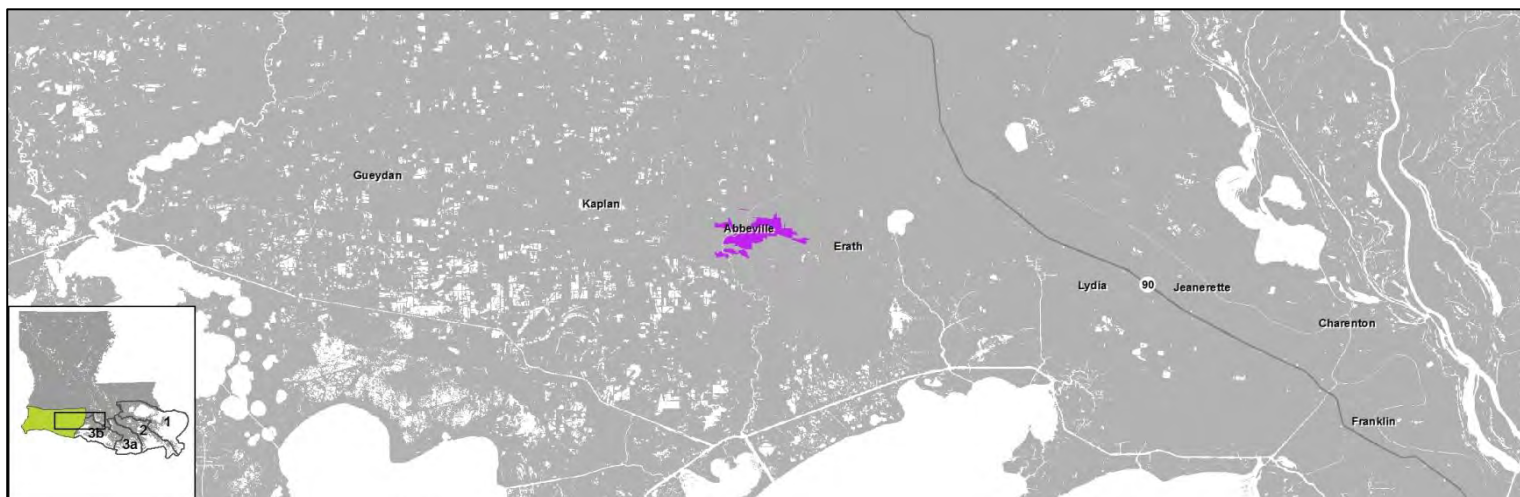
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the community of Abbeville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$105M	\$80M	\$459M	\$201M
100 Year Event	\$646M	\$320M	\$2260M	\$1647M
500 Year Event	\$2983M	\$2217M	\$6743M	\$5720M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1410	\$	118,805,000
Residential Elevated	180	\$	23,598,000
Voluntary Residential Acquired	0	\$	-
Total	1590	\$	142,403,000

Abbeville (High)

Nonstructural BFE + 4

Project ID: ABB.100.2



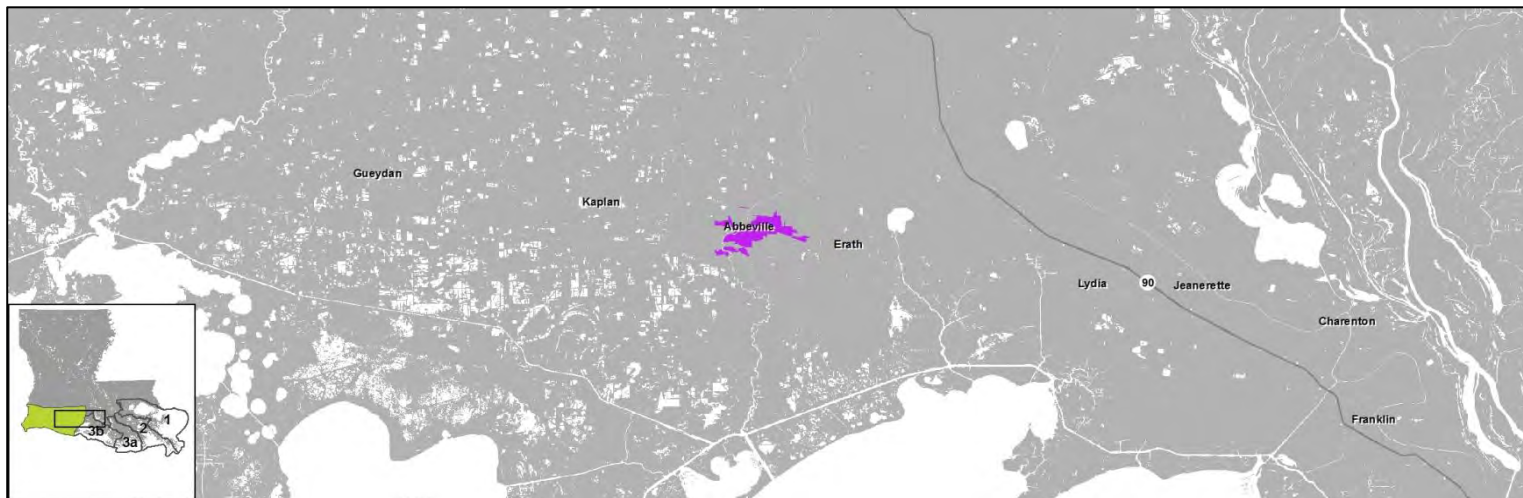
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the community of Abbeville.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$105M	\$80M	\$459M	\$201M
100 Year Event	\$646M	\$311M	\$2260M	\$1584M
500 Year Event	\$2983M	\$2134M	\$6743M	\$5353M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	120	\$	81,899,000
Residential Elevated	2470	\$	343,737,000
Voluntary Residential Acquired	0	\$	-
Total	2590	\$	425,636,000

Acadia Parish - Rural Areas

Nonstructural BFE + 1

Project ID: ACA.050.1



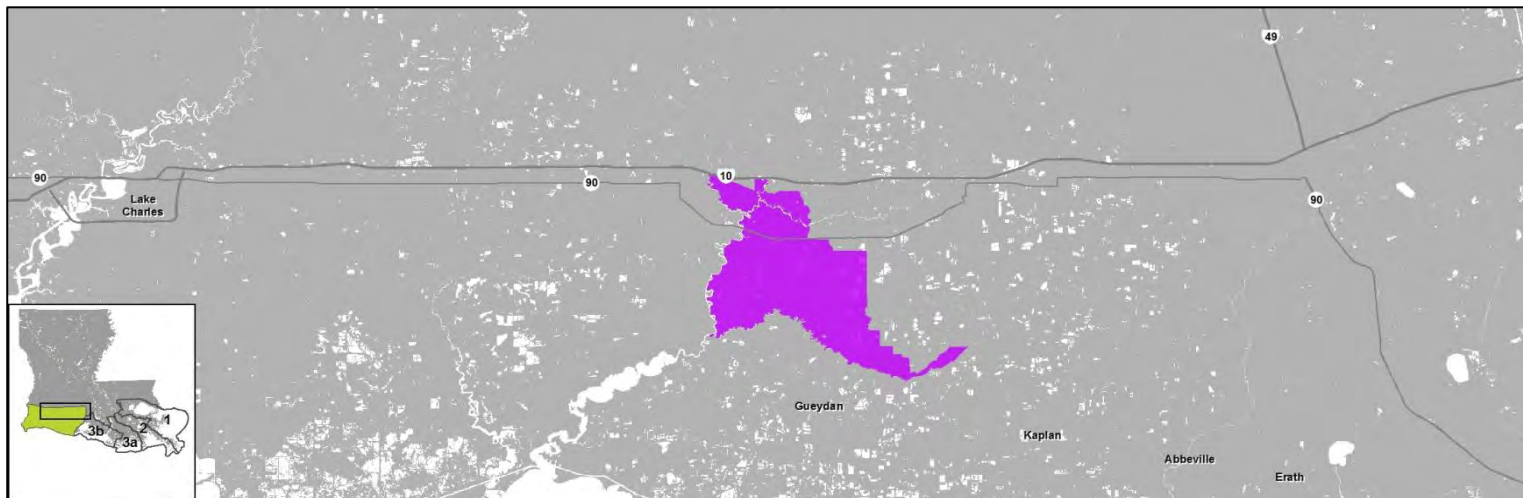
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Acadia Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$33M	\$29M
100 Year Event	\$54M	\$47M	\$160M	\$140M
500 Year Event	\$237M	\$199M	\$624M	\$427M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	430	\$	74,473,000
Residential Elevated	300	\$	47,262,000
Voluntary Residential Acquired	0	\$	-
Total	730	\$	121,735,000

Acadia Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: ACA.050.2



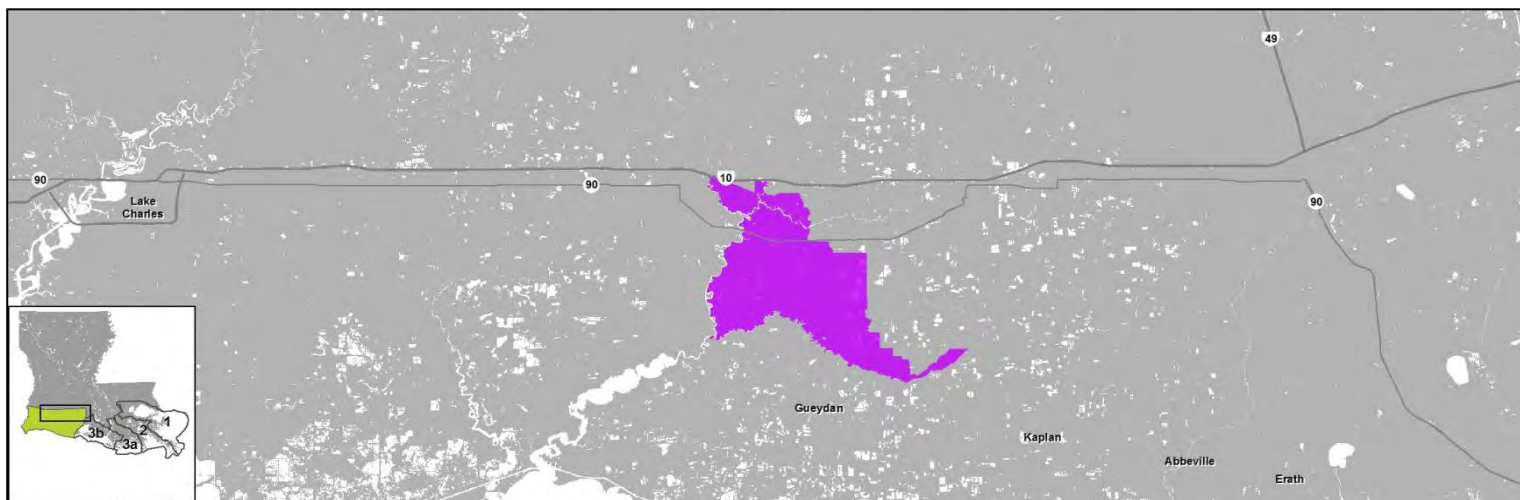
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Acadia Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$33M	\$29M
100 Year Event	\$54M	\$47M	\$160M	\$140M
500 Year Event	\$237M	\$199M	\$624M	\$424M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	110	\$	65,757,000
Residential Elevated	700	\$	112,728,000
Voluntary Residential Acquired	0	\$	-
Total	810	\$	178,485,000

Calcasieu Parish - Rural Areas

Nonstructural BFE + 1

Project ID: CAL.050.1



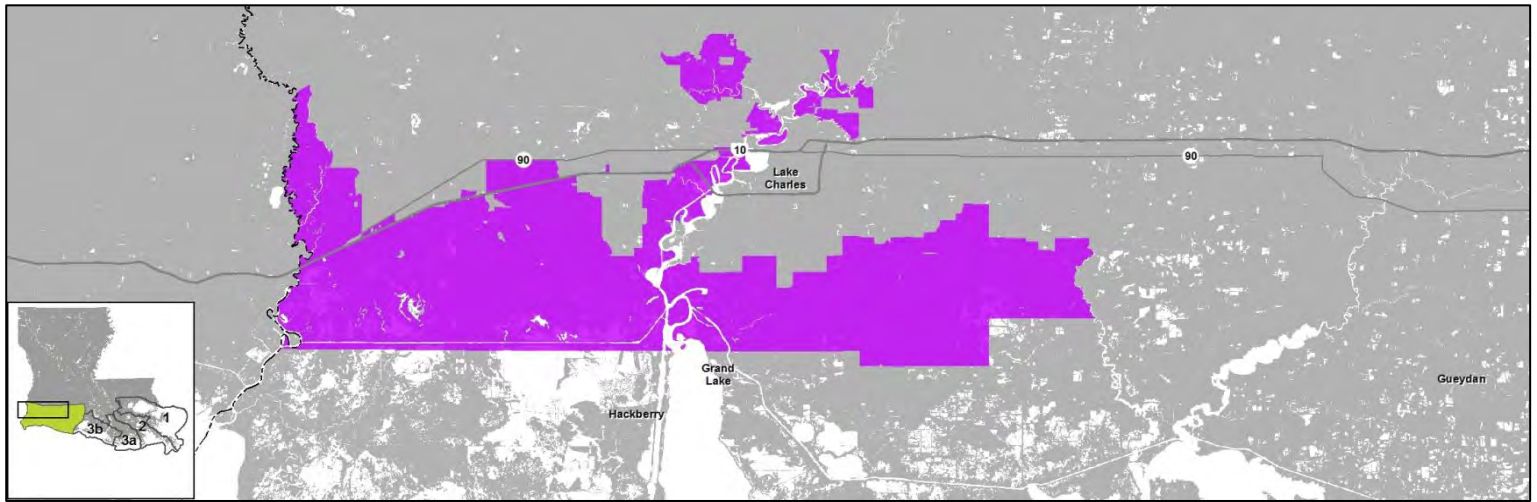
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Calcasieu Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$241M	\$210M	\$611M	\$546M
100 Year Event	\$1356M	\$1002M	\$3063M	\$2056M
500 Year Event	\$7426M	\$6029M	\$9522M	\$8671M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1520	\$	144,564,000
Residential Elevated	1640	\$	267,998,000
Voluntary Residential Acquired	10	\$	2,732,000
Total	3170	\$	415,294,000

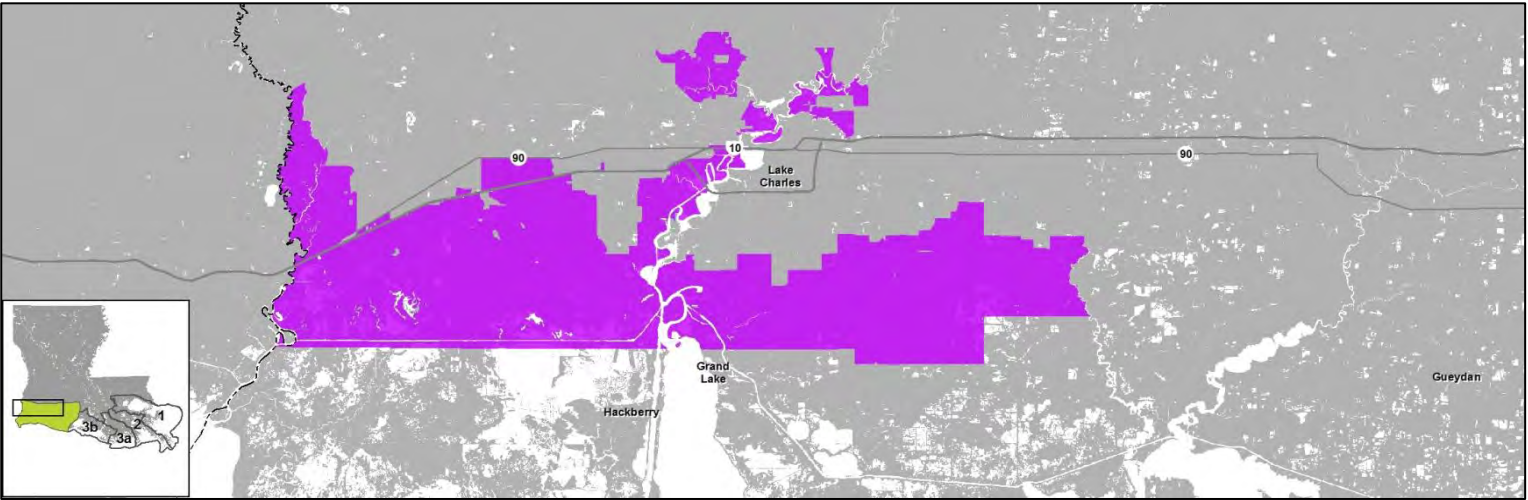
Calcasieu Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: CAL.050.2



- Planning Unit 1
- Planning Unit 2
- Planning Unit 3a
- Planning Unit 3b
- Planning Unit 4

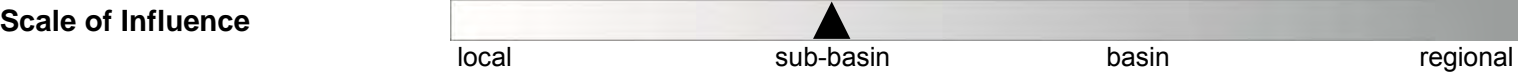


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet and voluntary acquisition of residential structures within rural areas of Calcasieu Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction

FWOA = Future without Action
FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$241M	\$210M	\$611M	\$546M
100 Year Event	\$1356M	\$1004M	\$3063M	\$2015M
500 Year Event	\$7426M	\$5604M	\$9522M	\$7772M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	120	\$	110,181,000
Residential Elevated	3560	\$	584,722,000
Voluntary Residential Acquired	10	\$	2,732,000
Total	3690	\$	697,635,000

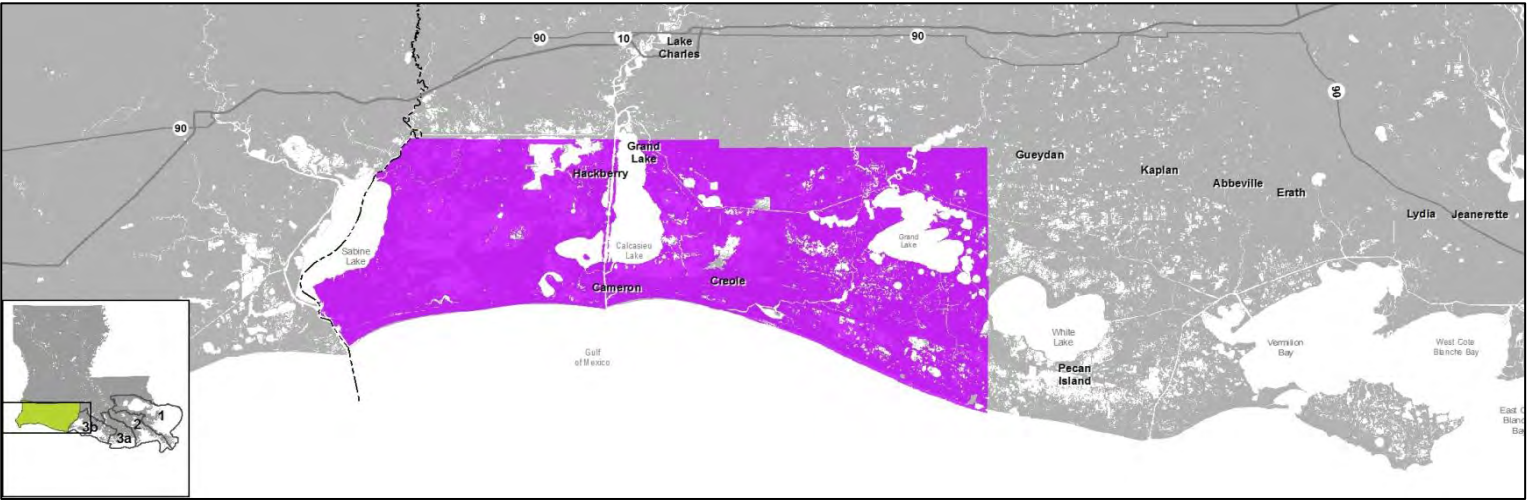
Cameron Parish - Rural Areas

Nonstructural BFE + 1

Project ID: CAM.050.1



Planning Unit 1 Planning Unit 2 Planning Unit 3a Planning Unit 3b **Planning Unit 4**

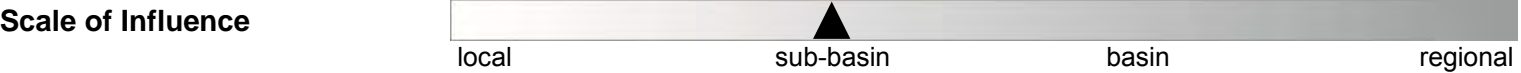


Project Source Developed for the 2012 Coastal Master Plan

Project Status Conceptual Phase

Description Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 1 foot, and voluntary acquisition of residential structures within rural areas of Cameron Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.



Estimated Damages Risk Reduction	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
FWOA = Future without Action FWP = Future with Project				
50 Year Event	\$2508M	\$2314M	\$3162M	\$2897M
100 Year Event	\$3638M	\$3359M	\$4516M	\$4107M
500 Year Event	\$6648M	\$6403M	\$7118M	\$7015M

Project Cost Estimate	Nonstructural Measure	Estimated Number of Structures*		Cost
*Does not represent specific houses and businesses to be protected.	Floodproofed	370	\$	25,502,000
	Residential Elevated	1230	\$	201,382,000
	Voluntary Residential Acquired	10	\$	2,000
	Total	1610	\$	226,886,000

Cameron Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: CAM.050.2



Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Cameron Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2508M	\$2314M	\$3162M	\$2895M
100 Year Event	\$3638M	\$3300M	\$4516M	\$3972M
500 Year Event	\$6648M	\$6128M	\$7118M	\$6877M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	20	\$	15,701,000
Residential Elevated	1640	\$	272,638,000
Voluntary Residential Acquired	80	\$	12,629,000
Total	1740	\$	300,968,000

Jefferson Davis Parish - Rural Areas

Nonstructural BFE + 1

Project ID: JED.050.1



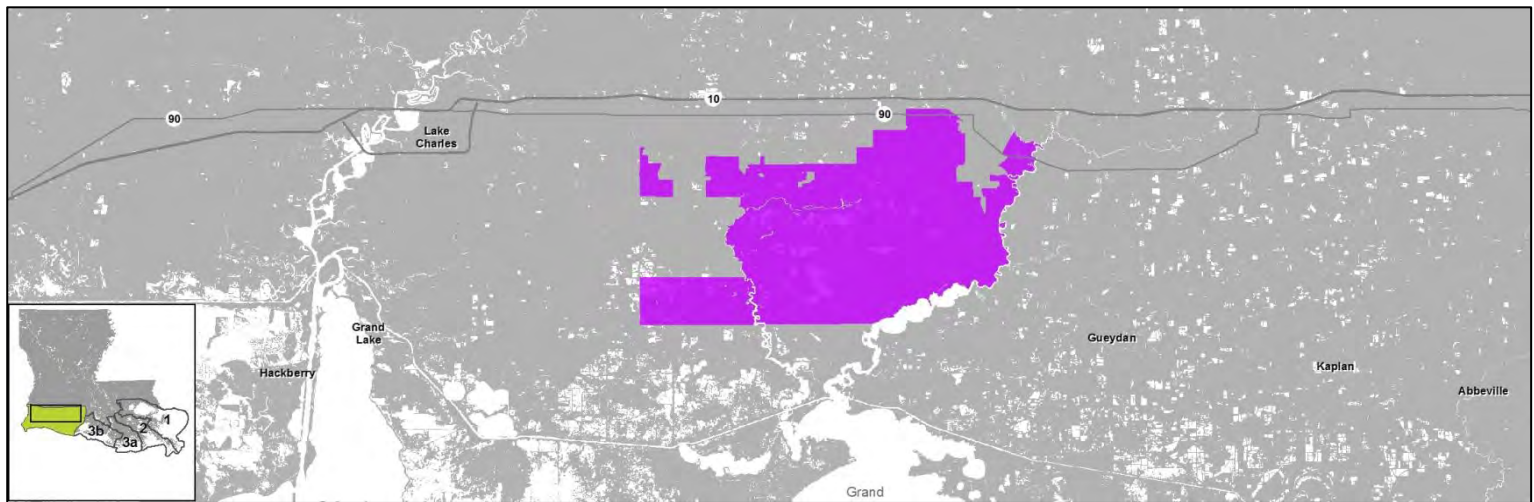
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Jefferson Davis Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$13M	\$11M	\$85M	\$51M
100 Year Event	\$116M	\$63M	\$890M	\$586M
500 Year Event	\$1258M	\$847M	\$2594M	\$1877M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1460	\$	121,179,000
Residential Elevated	290	\$	43,156,000
Voluntary Residential Acquired	0	\$	-
Total	1750	\$	164,335,000

Jefferson Davis Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: JED.050.2



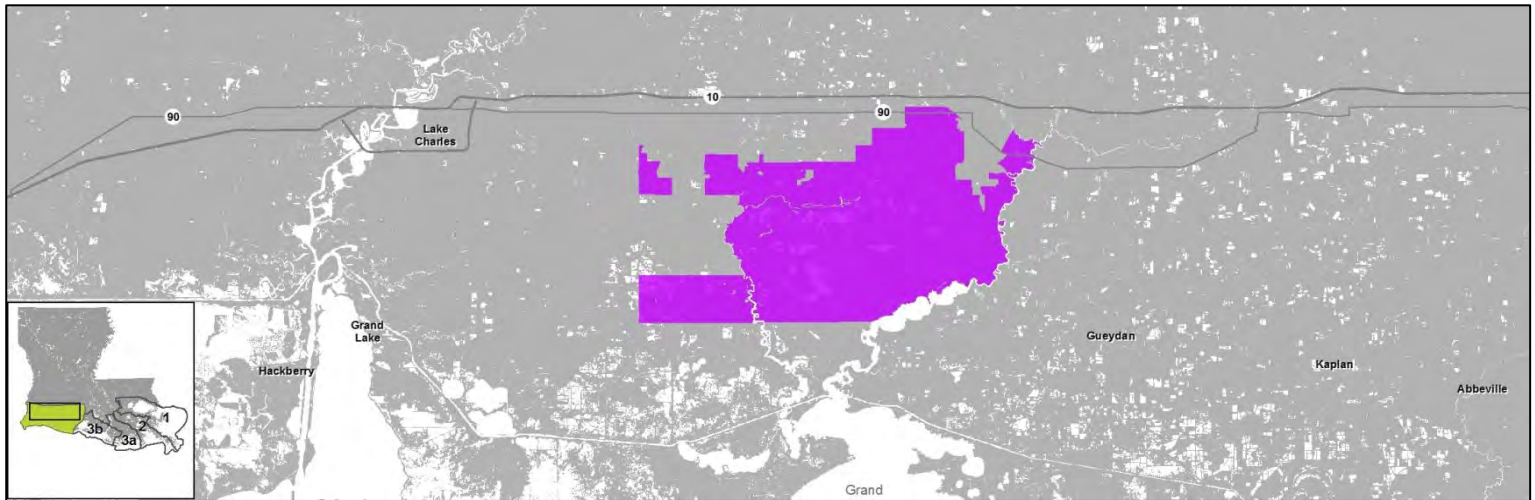
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of Jefferson Davis Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$13M	\$12M	\$85M	\$51M
100 Year Event	\$116M	\$64M	\$890M	\$573M
500 Year Event	\$1258M	\$834M	\$2594M	\$1767M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost	
Floodproofed	170	\$	87,196,000	
Residential Elevated	1590	\$	242,299,000	
Voluntary Residential Acquired	0	\$	-	
Total	1760	\$	329,495,000	

Lake Charles/Prien (High)

Nonstructural BFE + 1

Project ID: LCH.500.1



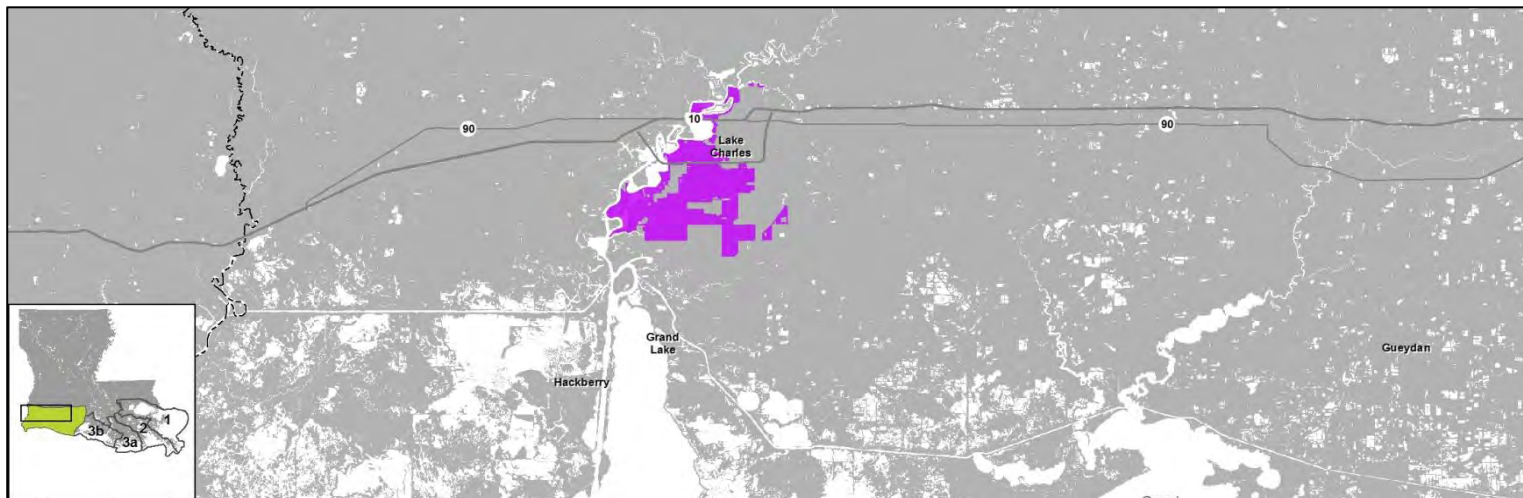
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Lake Charles and Prien.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$100M	\$36M	\$116M	\$45M
100 Year Event	\$554M	\$268M	\$2265M	\$1590M
500 Year Event	\$11507M	\$8943M	\$13735M	\$11631M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	5390	\$	400,081,000
Residential Elevated	670	\$	109,343,000
Voluntary Residential Acquired	0	\$	-
Total	6060	\$	509,424,000

Lake Charles/Prien

Nonstructural BFE + 4

Project ID: LCH.500.2



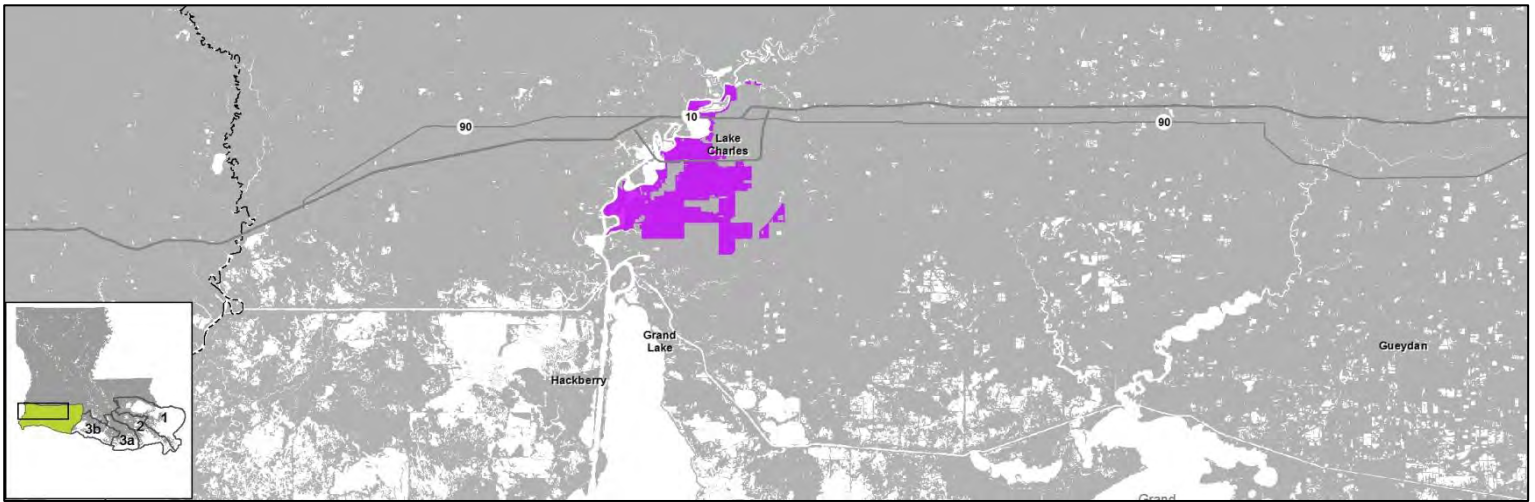
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Lake Charles and Prien.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$100M	\$36M	\$116M	\$45M
100 Year Event	\$554M	\$268M	\$2265M	\$1520M
500 Year Event	\$11507M	\$8238M	\$13735M	\$10706M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*	Cost
Floodproofed	420	\$ 224,373,000
Residential Elevated	8070	\$ 1,308,055,000
Voluntary Residential Acquired	0	\$ -
Total	8490	\$ 1,532,428,000

Sulphur/Carlyss

Nonstructural BFE + 1

Project ID: SUL.100.1



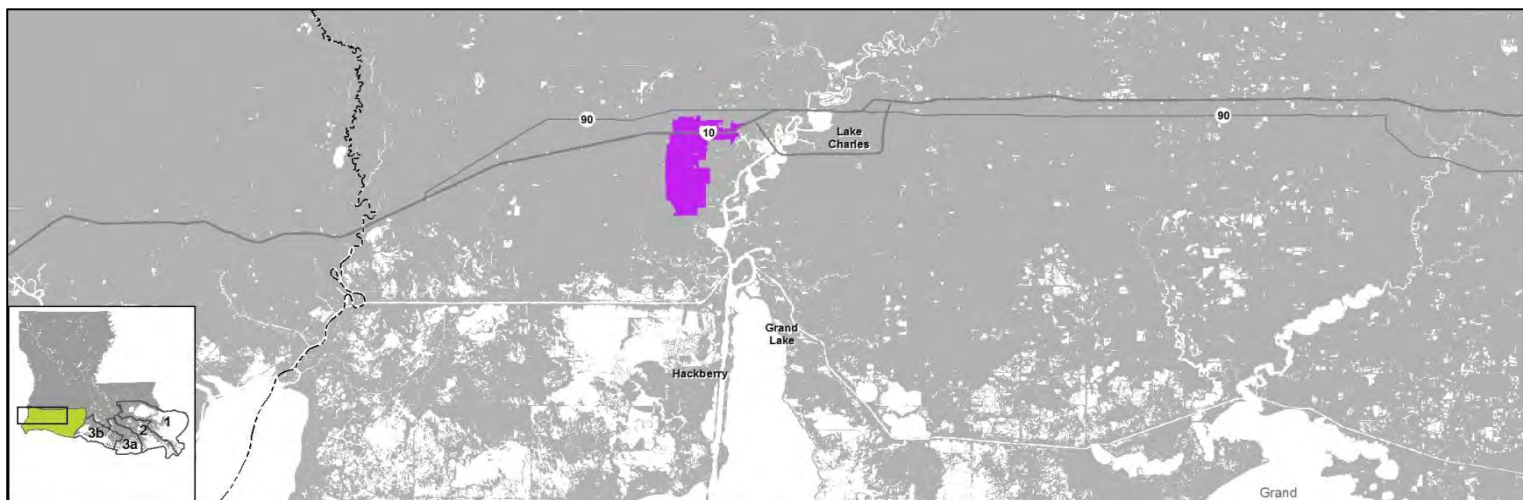
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Sulphur and Carlyss.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$14M	\$6M
500 Year Event	\$2121M	\$1566M	\$6467M	\$5519M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	1480	\$	97,973,000
Residential Elevated	110	\$	15,660,000
Voluntary Residential Acquired	0	\$	-
Total	1590	\$	113,633,000

Sulphur/Carlyss (High)

Nonstructural BFE + 4

Project ID: SUL.100.2



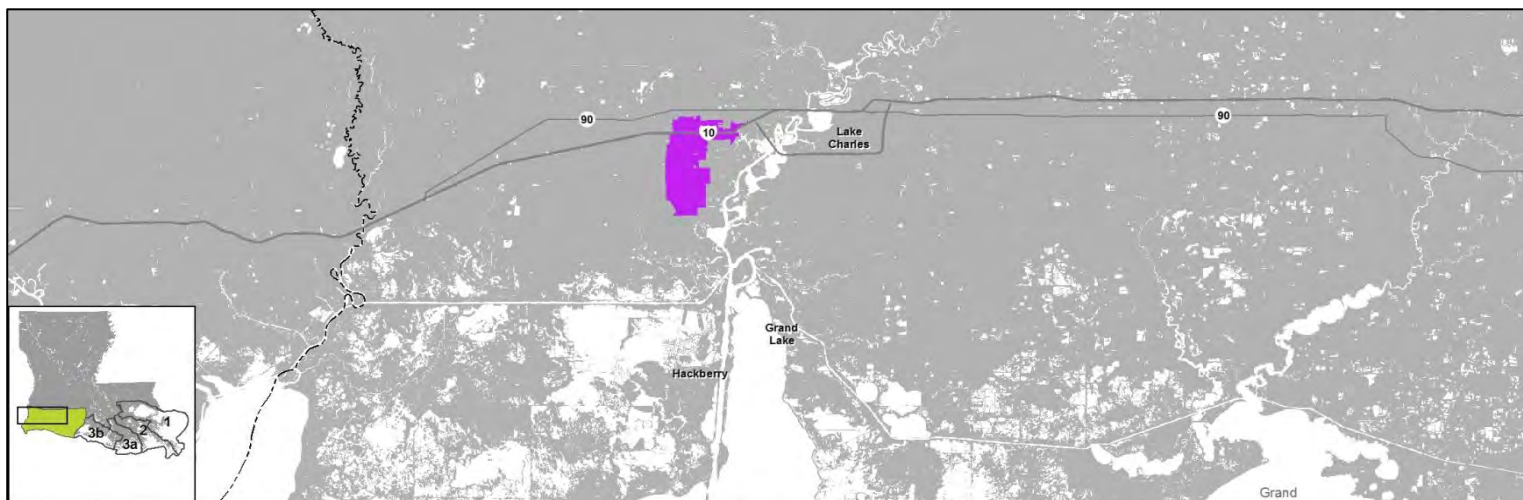
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Sulphur and Carlyss.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$0M	\$0M	\$0M	\$0M
100 Year Event	\$0M	\$0M	\$14M	\$6M
500 Year Event	\$2121M	\$1496M	\$6467M	\$5260M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	80	\$	53,578,000
Residential Elevated	2110	\$	326,283,000
Voluntary Residential Acquired	0	\$	-
Total	2190	\$	379,861,000

Vermilion Parish - Rural Areas

Nonstructural BFE + 1

Project ID: VER.050.1



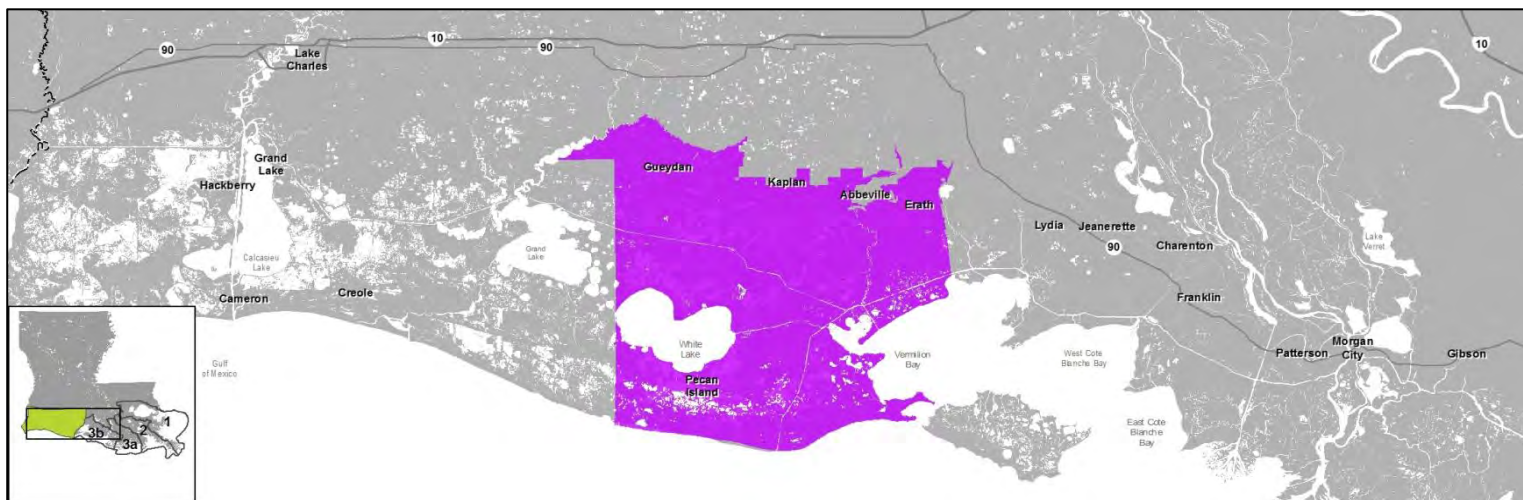
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of Vermilion Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2947M	\$2070M	\$4892M	\$2919M
100 Year Event	\$5244M	\$3128M	\$8568M	\$6421M
500 Year Event	\$9826M	\$7606M	\$11766M	\$10512M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	2450	\$	222,817,000
Residential Elevated	2850	\$	454,605,000
Voluntary Residential Acquired	0	\$	-
Total	5300	\$	677,422,000

Vermilion Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: VER.050.2



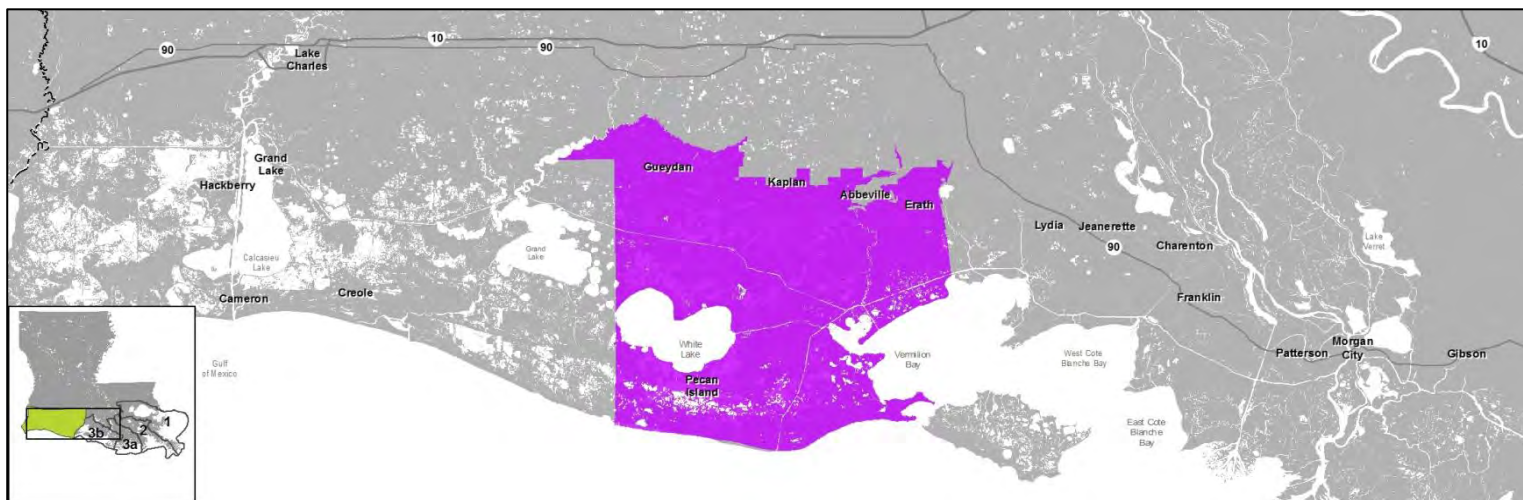
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet, elevating residences to the Base Flood Elevation plus 4 feet, and voluntary acquisition of residential structures within rural areas of Vermilion Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$2947M	\$2072M	\$4892M	\$2930M
100 Year Event	\$5244M	\$3125M	\$8568M	\$6033M
500 Year Event	\$9826M	\$7091M	\$11766M	\$9342M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	290	\$	165,804,000
Residential Elevated	5610	\$	912,785,000
Voluntary Residential Acquired	10	\$	413,000
Total	5910	\$	1,079,002,000

South Vermilion Parish - Rural Areas

Nonstructural BFE + 1

Project ID: VER.050.3



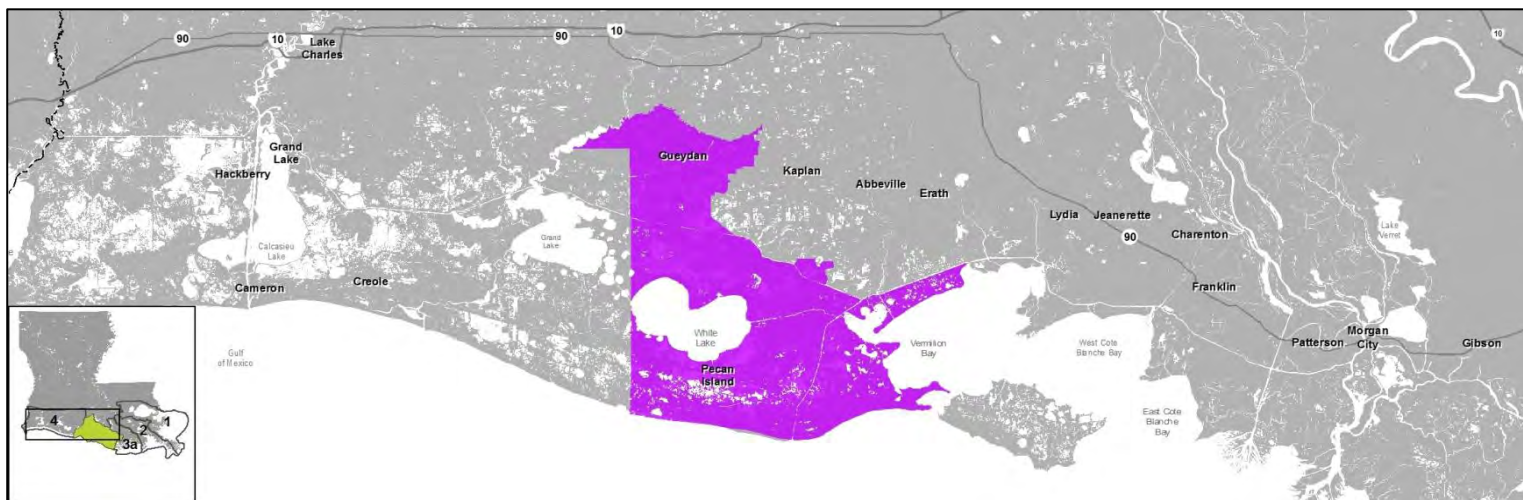
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot within rural areas of southern Vermilion Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$454M	\$370M	\$826M	\$675M
100 Year Event	\$861M	\$634M	\$1963M	\$1606M
500 Year Event	\$2278M	\$1921M	\$3518M	\$3329M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	430	\$	31,494,000
Residential Elevated	400	\$	63,630,000
Voluntary Residential Acquired	0	\$	-
Total	830	\$	95,124,000

South Vermilion Parish - Rural Areas (High)

Nonstructural BFE + 4

Project ID: VER.050.4



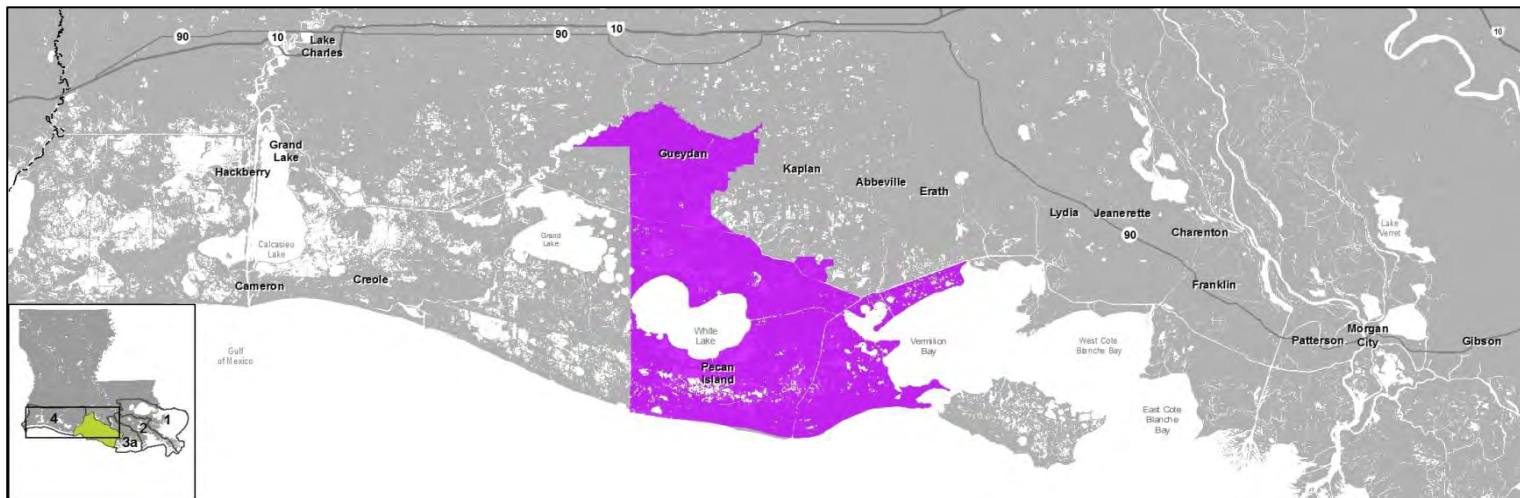
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet within rural areas of southern Vermilion Parish.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$454M	\$370M	\$826M	\$639M
100 Year Event	\$861M	\$638M	\$1963M	\$1498M
500 Year Event	\$2278M	\$1757M	\$3518M	\$3134M

Project Cost Estimate

*Does not represent specific houses and businesses to be protected.

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	30	\$	20,737,000
Residential Elevated	1060	\$	170,717,000
Voluntary Residential Acquired	0	\$	-
Total	1090	\$	191,454,000

Westlake/Moss Bluff

Nonstructural BFE + 1

Project ID: WES.100.1



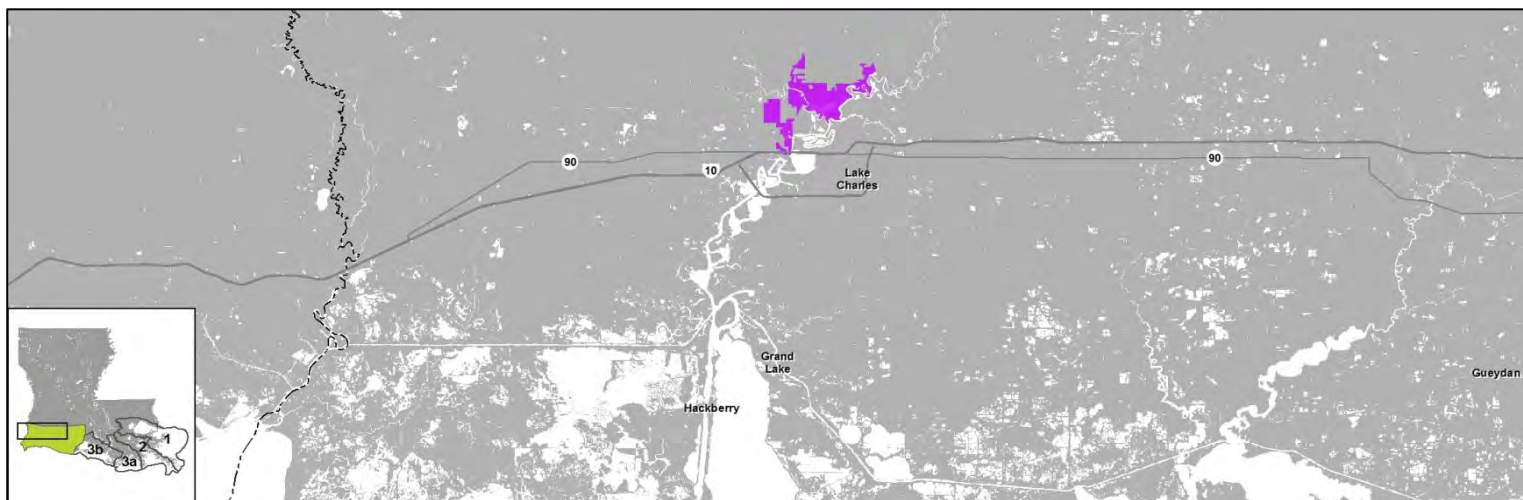
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 1 foot in the communities of Westlake and Moss Bluff.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



Estimated Damages

Risk Reduction

FWOA = Future without Action

FWP = Future with Project

	Moderate		Less Optimistic	
	FWOA	FWP	FWOA	FWP
50 Year Event	\$44M	\$14M	\$66M	\$26M
100 Year Event	\$372M	\$238M	\$750M	\$412M
500 Year Event	\$2012M	\$1508M	\$2512M	\$2116M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	660	\$	59,914,000
Residential Elevated	580	\$	95,063,000
Voluntary Residential Acquired	0	\$	-
Total	1240	\$	154,977,000

Westlake/Moss Bluff (High)

Nonstructural BFE + 4

Project ID: WES.100.2



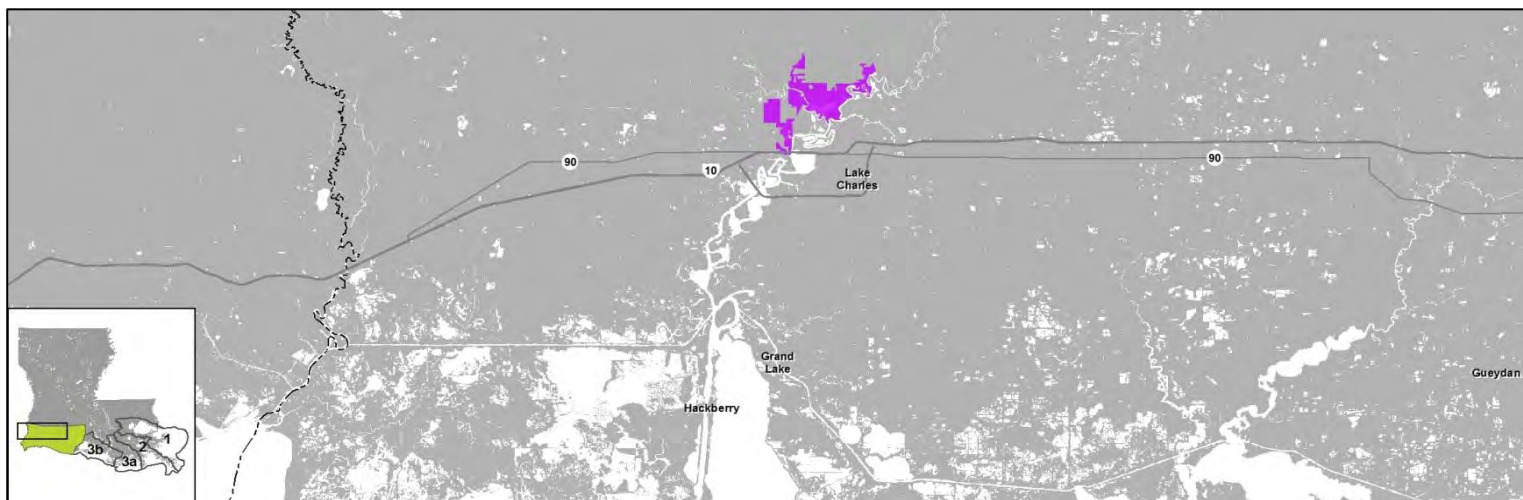
Planning Unit 1

Planning Unit 2

Planning Unit 3a

Planning Unit 3b

Planning Unit 4



Project Source

Developed for the 2012 Coastal Master Plan

Project Status

Conceptual Phase

Description

Combination of commercial and residential floodproofing to 3 feet and elevating residences to the Base Flood Elevation plus 4 feet in the communities of Westlake and Moss Bluff.

Nonstructural projects in the master plan analysis provided a means of evaluating their contribution to the coast wide risk reduction goal. Nonstructural projects do not define specific houses and businesses to be protected. The development of the nonstructural program, in coordination with communities, will help define the actual design and implementation of these measures.

Scale of Influence



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500 Year Event	\$2012M	\$1395M	\$2512M	\$1941M

Project Cost Estimate

**Does not represent specific houses and businesses to be protected.*

Nonstructural Measure	Estimated Number of Structures*		Cost
Floodproofed	60	\$	43,534,000
Residential Elevated	1270	\$	217,252,000
Voluntary Residential Acquired	0	\$	-
Total	1330	\$	260,786,000